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No 58/10

White Pine Groves

Present-Day Trees and the Giants of Old

—Were They Another Variety?

BY WINTHROP PACKARD

ATINNY brown wing brushed my cheek this morning, flitting madly southeastward on the wings of the November gale. It was a belated one of many that have scattered from the pine tops this autumn, for it was the single wing of a white pine seed and the cone harvest has been good. Ever since August the squirrels have known this and the stripped spindles lie by the score under the big pasture pines where these have left them after eating the seeds. It seems much work for small pay for the squirrel. He must climb venturously to the very tip of the slippery limb, gnaw the cone from its hold, then run down the tree and gnaw it to pieces for the tiny seeds within. So light are these seeds, wing and all, that it takes twenty to thirty thousand of them to weigh a pound and it is probably fortunate that squirrels do not live by pine seed alone. However, the gnawing means as much to the squirrel as the eating, for the squirrel's teeth grow constantly and he must continually wear them off or he dies, stabbed by his own incisors which grow in the arc of a circle. Yet the squirrel is unbroken at getting at the tiny, though hard and heavy cones, even if I use my knife. He holds the cone stem end upward in his fore paws which are so like hands, severs the base of the scale with his ivory shears and has munched the two little seeds that cling close under the very bottom of the scale, almost before you can see him do it.

Certain wise naturalists assure us that the squirrel does not use reason in this handling of the cone, merely acting automatically by blind instinct. Yet he gets his results in the shortest time and with the least effort. The highest reasoning could teach him no more and if instinct is such a splendid short cut to the solution of problems it is a pity that it is not added to our common school course. The squirrel, they say, does it because he and his ancestors have done it in the same way for untold generations, the automatic impulse being born in him and bound to appear at the right moment, just as his teeth grow without his own volition. Yet there must have been a time when the first squirrel sat up on a limb with his first pine cone in his paws. Did he reason out the way to get those seeds or did he know instinctively? And if so what is instinct in his case?

For all the squirrels got so many cones that in some places in the woods the ground was fairlily carpeted with the broken scales which they saved, prompted by the clever, whatever-it-is, that is such an excellent substitute for wisdom, there are plenty still left on the trees, where they dart from the branch tips, their scales kapung and the seeds for the most part gone. Left to themselves they have been flying away ever since September, a few at a time on dry, windy days when their single wings would scull them farthest. One might impute instinct or whatever it is to the pine tree too, she works so methodically for the preservation of her species. A year ago last spring the mother pine put forth the beginnings of those pine cones that now dangle brown and pitchy, or drop to the ground, useless except as kindlings for my campfire. Then they were wee gold-en-green buds of pistillate flowers, set high on the uppermost branch tips that the pollen from the tree's own staminate blooms might miss them in its flight down the wind and thus avoid inbreeding. If this is fertilization postponed till fall off.

It is commonly said that the pines produce a crop of cones once in five or seven years, which is true in part just as the statement that every seventh wave at sea is larger than any of its preceding six is occasionally borne out by the facts. I do not recall years in which the pines have failed to put forth both staminate and pistillate blossoms. Sometimes frost gets these and they fail to reproduce. Sometimes a long rain will prevent the pollen from being disseminated by the wind until its time is passed and again there is a failure in cones. Only once in a while is the season perfectly favorable, and then we get that seventh wave in pine cones and the squirrels rejoice that they can file their teeth and fill their cheek pouches at the same time. The years when there are no cones at all sending forth their seeds in September are few indeed. This year the harvest in my neighborhood has been an excellent one.

The fertilized bloom soon ceases to be a little Christmas tree on the tree top, closed in tiny scales on its tiny growing seeds and becomes a little green cone still sitting upright on the upper branch tip where it grew. By autumn it is in inch and a half long, the short peduncle which attaches it to the branch has lengthened and thickened, but is not able to hold it wholly erect, so much has it gained in weight. At that season the young cone and its fellows have tipped over horizontal or even become slightly pendulous. Thus it remains through the winter, its scales pressed close to its core and to one another, defending the tender seeds from all cold and making a seemingly solid chunk of the whole. Toward spring I have known squirrels to attack these

young cones, but rarely, and I am not sure whether it was because of the pressure of hunger or whether some young squirrel's instinct to sharpen his teeth had made him a bit precocious. These adolescent cones begin growing again very early in the spring. Youth will have its way and in this case it seems to seize on the first set that grows as far as the topmost branch tips, compelling it to the nourishing of the young cones before it can go to the making of new leaves or even of the crop of staminate and pistillate blossoms for the ensuing summer. The cones add a quarter of an inch to their length before the blossoms of that year appear, and their weight says them still more on the stem, making them distinctly pendulous. By the last of August these greedy feeders have not only ripened the seeds within the still close-pressed scales, but have multiplied their own length by four, being four to six inches long and hanging pretty nearly straight down by their weight.

Their work is done then. Fifty or more scales has each cone, a hundred or more seeds, if the fertilization has been perfect, are ripe and ready to go forth and produce other pine trees. In early September the sap begins to recede from these young cones and the scales lose their green plumpness and begin to dry and curl back toward the base of the cone. This gives the seed eating birds, the siskins, the pine grosbeaks and especially the crossbills the opportunity and they eagerly stuck out such seeds as the narrow openings will give them a chance at. Between these and the squirrels the pine forests of the future are declaimed before their seeds have been planted. Nature provides bountifully for the reproduction of all her favorites, yet far more bountifully in some instances than in others. A thousand young birches spring from seed, to one pine in our Massachusetts woods, and no wonder. Each birch tree ripens a thousand seeds to one that comes to maturity in the great cones of the pine. Yet there are compensations for the pine tree. Barring axes and accidents it may live out its third century and yearly give more and more comfort and inspiration to mankind as it increases in dignity and beauty. The birch may give comfort and beauty, but it is lucky if it lasts out a score of years.

It is often a surprise to me to see how far a seed will fly with but one wing. The air currents set it spinning the moment it leaves its parent tree making of it at once a tiny gyroscope with a single blade of a propeller. Its gyroscopic quality steadies it and the whirl of its propeller tends always to lift its weight. Hence with a downward current it falls with a less velocity than the wind which whisks it, in a level breeze it often holds its own, while in the upward slanting streams of air which flow so often along and away from the earth's surface it rises easily. The stronger the wind the more the faster whirl of that tiny propeller tends to keep it in air and with a good September gale threshing seed out of its cones a pine tree may be planting its kind for miles to leeward. The seed that brushed my cheek this morning made no such offing. Caught in a back eddy it whirled round a sunny glade for a moment, then in a sudden lull spun directly downward to the grass. There it lay, a tiny seed, covered with a thin, dived plummet-like out of sight the thin propeller becoming a tail that kept it head downward while it slipped most cannily to the very mould. There I found it, still in such a position that every movement, every pressure, would carry it down out of sight of all seed eating creatures where it might rest and ripen till spring when it would be ready to germinate.

Searching the pine grove and the scrubby country that outlines it, I found all stages of pine growth, from the gnarled patriarch four feet in diameter at the butt to the germinating seedling which is nearly a hundred feet tall and though I have found many of quite its diameter, and I am very sure none of its age, hereabouts. His age I can but guess, yet I know that fifty years ago he was as large as he is now. Indeed, he had more wood in him, for his lower limbs that were green and flourishing and six to eight inches in diameter have since decayed and fallen away. Recently a pine was felled in Pennsylvania which was 165 feet tall and 42 inches through at 4 feet 6 inches from the ground. This tree was 351 years old. I have reason to believe my patriarch is as old as that one. His height is not so great, but he has three trunks instead of one, springing from that gnarled butt at a number of feet above the ground. There are occasional trees like this one still standing in eastern Massachusetts. They have seen their children and grandchildren grow to marketable size and fall before the woodchopper's axe. They have seen one or two generations of hardwood grow between these cuttings, yet they still stand and remain. In cutting off wood it used to be the custom of our forefathers to leave here and there a particularly gnarled and difficult pine that the seed might furnish a growth for succeeding generations. Hence these occasional trees. I may be wrong, but I have an idea that my patriarch was growing right where he stands, a young and vigorous sapling, when quaint old Josselyn wrote about those two voyages to New England in

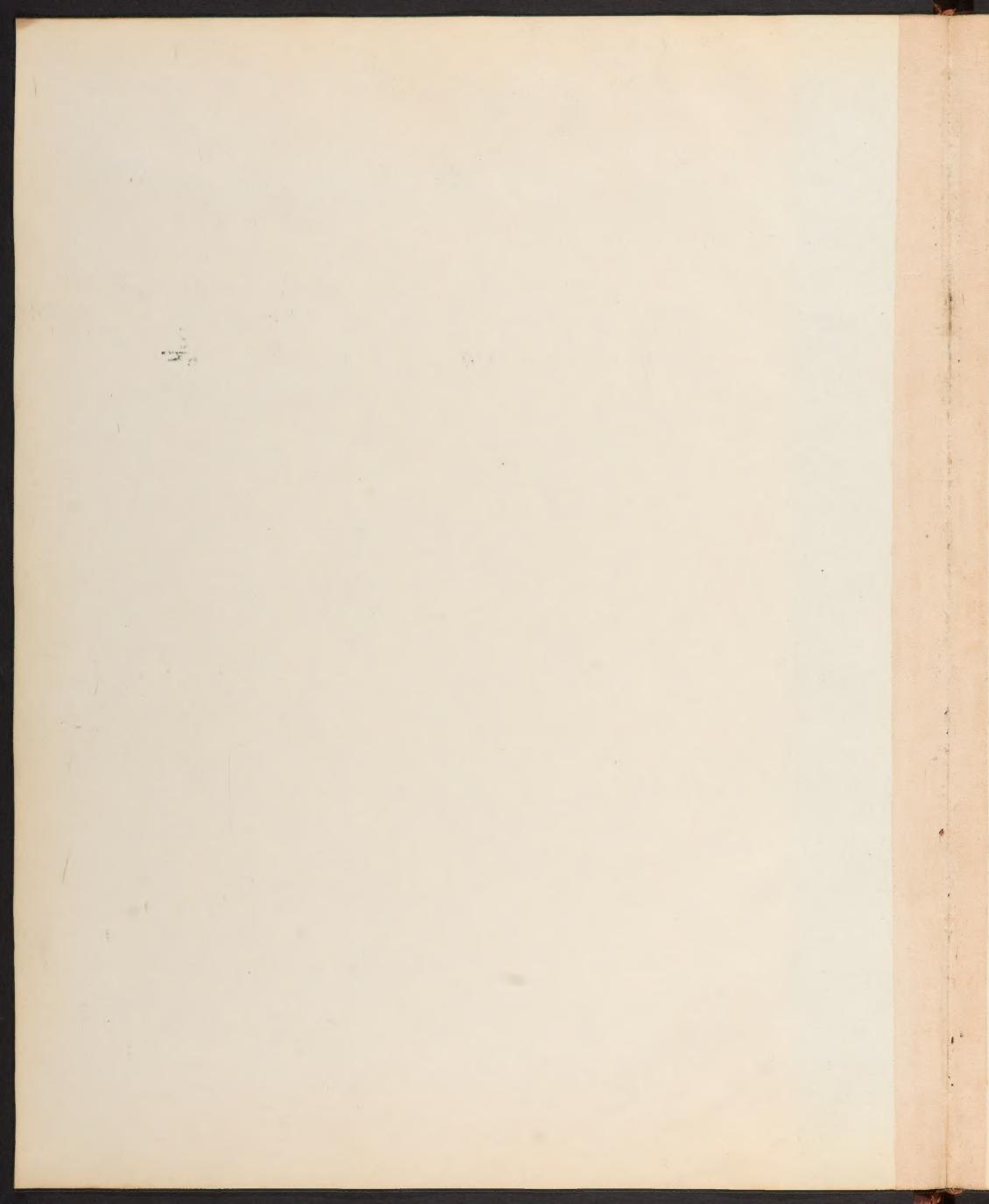
the early years of the seventeenth century.

Josselyn gives us to understand that the wood of the white pine is that mentioned in the scriptures as gopher wood out of which Noah built the ark. Certainly the white pine of Josselyn's day was abundant in the neighborhood of Ararat in Noah's time he could have done no better. The wood is light, soft, close and straight grained. You may search the world for one more easily worked or more generally satisfactory. Indeed the last half-century has seen the good white pine of the world pretty nearly used up, certainly all the best of it, for wood-working purposes. Fifty years ago it was the cheapest New England wood, today it is the highest-priced, and the old-time clear pine, free from knots and sapwood is almost impossible to obtain at any price. For all the forestry we can bring into play it will take more than three centuries to grow for us such trees as were common in Maine and New Hampshire a century ago. In 1832 white pines were not rare in Maine six feet in diameter and 240 feet high. In 1788 near the Merrimac River above Dunstable in New Hampshire a pine was cut, straight and sound and having a diameter at the butt of 7 feet 8 inches. Half a thousand years were none too many in which to grow such a pine as that. Could a man have a few of these on his farm anywhere in New England today they would be worth more than any other crop the countries could have raised for him.

The youngest pine seedlings hide so securely in the pasture grass and under the low bushes that rarely does one notice them during the first year of growth. By the end of that time they are singularly, to my mind, like fairy palm trees, planted in the gardens where the little folk stroll on midsummer nights. Their single stem and the spreading whorl of leaves at the summit of it are in about the same proportion as those of a palmetto whose great leaves have been tossed and shredded by the trade winds. That single twig could become, in the passage of centuries even a 200-foot tree seems difficult to believe. It looks no more likely than that the "ground-pine" which is taller than the seedling and fully as sturdy should some day be 200 feet tall. Yet the ground-pine may grow from its creeping rootstock for a thousand years in the shade of one grove and never be over root tall. Thus easily may we be deceived by small beginnings. No palm ever rivalled a full-grown pine in height and girth, yet a palm comes out of the ground as green as diameter of trunk and with as abundant a frondage as will ever have.

Watching seedling pines grow year by year it is difficult to see how the great, clean-trunked, old-time pines that towered over two hundred feet tall came from four to six feet in diameter carry about. The free growing pasture pine makes a round headed shrub for the first ten years or so of its life, with abundant long limbs, and is clad in profuse foliage from top to bottom. Even as decades pass its limbs still remain numerous and though there is abundant wood in the half century old pasture pine it is of little use for lumber, for the limbs, young and old, have filled its trunk with knots. Where our present day trees have seemed in thickly and uniformly over considerable space it is different. Then as the trees grow old they grow taller, each struggling to outdo its neighbors and get more light and air. Lower limbs decay in time and in the progress of forty or fifty years we get a "second growth" pine which is fairly limbless for a height of forty or fifty feet. Give the tree another half century if you will. I know many groves that have had that and still their trunks, though faintly bare, show the knots where the limbs have been and produce anything but clear lumber. It may be that by giving these century-old groves another century or two we should have something like the old perfect holes that our great grandfathers dug out of the Maine woods, but I am not so sure about it. I see no promise of it. In the conditions under which pines grow today, even my patriarch though he has, I am very sure, sufficient room to his credit would cut out only a medium quality of box boards; there is no clear lumber in him.

To produce the giant trees of the early half of the nineteenth century the tiny seeds must have rooted plentifully in rich soil, the trees must have stood so close together as to steadily and persistently crowd out the weaker and shorter, and in the passing of two, three or four centuries we had remaining the magnificent specimens, towering two hundred or more feet in the air, their trunks without limb or knot for more than half that distance. Such conditions may account for these enormous trees, yet I am inclined to think that they do not. I am inclined to the belief that in these giant pines we had a variety of *Pinus strobus* which was very closely allied to our smaller trees, but which was not the same, just as the *Sequoia gigantea* of the higher Sierras is a gigantic variety of redwood, closely allied to but not the same as the *Sequoia sempervirens*, which flourishes nearer the coast and in the lower levels. That would easily explain why old pines which we call "second growth" show little tendency to become such majestic or so long lived trees as the giants of a century and more ago. It is doubtful if any of the old time mighty ones remain in any remote corner of our forests. It is a pity, too, for it is probable that in destroying the last one we destroyed a variety of pine that was far nobler than any left.



Mrs. L. Brück
care Mrs. Francis Shippen
Landing
New Jersey

13 July 1904

massapog Pond Sept 2 1904
Club Trip to Brimfield 7c ~~\$~~
May 21. 1902

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8074. I recently visited the old white oak on the south side of Ponkapog Pond. My measurement made it 15 feet 10 inches in diameter about five feet from the ground. The oak was in a healthy condition but sadly in need of attention particularly in clearing away the undergrowth that is choking it. From its wide spread and low height I should judge it originally grew in a clearing and not in the forest, and as it must be six or eight hundred years old its early history would be interesting. Can any of your readers tell me if it has any history? It should be given attention, and preserved for its size if for no other reason. 7 Aug 1909. E. R. J.

1900

Katahdin Trip.

July 4.

JR Churchill & I left Boston 9.45 PM Monday evening July 2^d & arr Bangor at 5; left at 6 in same sleeping car & arr Milo Junction at 7.35, changed cars and arr Stacyville at 9.35. Mr. E. L. Rogers met us with Tote wagon, seats on springs, and a flat-form deck for baggage: a second Tote team took our Trunks as we rode with Mrs. Rogers & their 5 year old girl Ruth: at a mile & a half from Sipot we unhitched horses, & had dinner in gypsy style, hot steak & tea & various cakes & a potato salad; we were by the ruins of an old saw mill on a pretty stream: from this point on Churchill & I walked the 7 miles up to the Ferry or Leeksross House on the ^{East} Branch of the Penobscot or Matagamon River as some call it. The walk was a beautiful one, woods all the way, hard wood edges, we noticed only one small patch of spruce wood not more than 100 rods, on the whole road: tho so fine a road to walk it was a rough one for teams: the soil is clayey & the roadway is cut into it with side walls of a foot or more in height, these make a channel

Mt Katahdin

Lat. $45^{\circ} 55' 40''$ Long $68^{\circ} 07' 51''$

Wide Appalachia

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for the running water of which there
was plenty, but the walls are so
so stiff clay that a tolerable
footpath is often to be had on
the very edge of the little wall.
For the last two miles a gradually
increasing rain came on, but I
had my Umbrella & C. his rubber
coat. The ~~&~~ House at the Old
Hunt place we called at &
waited there till the teams
came along: they had to come
thro' the Hunt clearing but not
very near, tho' within sight of the
windows of the house. Here were a
man & a boy keeping house & waiting
for the sportsmen to visit them.
The last mile is by the River bank
but I saw little fish on account of rain.
We collected very little tho' I L C.
at the lunch place found good
Ranunculus septentrionalis and *Gaura*
Virginianum. We are in the Hotel
abt $\frac{1}{8}$ of a mile from the farm house
we sleep & live here & go to our
meals at the farm house. Last
night was cloudy & still & myriads
of fire flies gave us our Fourth of
July Celebration.

July 9.

In camp. So Basin Mt Katahdin.

July 4th Churchill & I passed very quickly exploring about near the house & enjoying the fine view of Mt Katahdin. In the evening he went out in Canoe for the first time in his life & with Mr Rogers this little guide they all saw a moose wading in the meadow grass at mouth of Sebas Brook half mile fr Ferry. July 5th we walked in morning back to the Metagoum house & back & then waited for the others, E. F. Kilborn, Fernand & J. T. Collins who came at 4 pm were astonished at the terrible state of the road. A big gang of lumbermen came too so that Mrs Rogers had 25 men to get breakfast for my crossing, ~~and~~ that we did not get off quite as early as we expected, however at 8.30 we were crossing in the Ferry Boat swinging by wire & in a few moments more were plowing into the holes of the road, deeper & softer than the one we came over from Stacyville; we lunched at Robbers Camp 10 miles, from this point on most of the wood had been cut & burned & it was a scene of desolation, not until very near Bell Camp 11 miles further did wood enough appear to give

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any rest to the wearied eye. We walked
the 3 miles fr Cixy Camp to Bell Camp
and it was wonderful that horses
could take any load over such a
road. Bell Camp is at the end of
the Lake Road & we camped here,
using our blankets on the floor of the
camp. Leonard caught a few trout
on the stream below the dam.

July 7

We arose early & started for Mcleads
Camp, Mr Rogers on horseback, the
guides along side the jumper loaded
with our stuff ~~which~~ to which
were hitched two horses driven by
Peter the French Canadian; we
walked the 3 miles most of it on
a smooth grassy road by the river.
We had just reached Mcleads and
were arranging for our six mile
walk up the trail into the Basin,
when the clouds broke & a thunder
shower came down, so we had a
lunch of fried pork, tea &c & then
as the clouds lifted a bit, Rogers &
Peter took their way home with the
horses & we started on our walk.
The rain came before we had made
two miles & we continued our tramp
through beautiful mossy woods,

5

out in snowy lakes here in the
mountain so, & by rocky edges of
mountain side where broken up
here - difficult to climb out. The
roads were more beautiful than any
elsewhere. Was into the hills
fairly quickly with Collier's road
and at 11.10, the other time
for 30 to 40 minutes ago. We
could see sea while we were
clouds rolling.

Sunday
5 July.

The rain kept us from getting
through most of the day, but
up a bit towards evening
we can see three patches of snow on the
top in hills. A very heavy shower
rain as far east as some snow-covered
caves in the cliffs. The trees
made me worry more for snow than
the hills, they also turned out to
be all dry towards the outside. It was
heavy snow in westward to the hills
but when I got off the road for
houses & to the tiny villages - other
things. The rain came gradually after we
got home but the sun soon shone.

1 July
Monday

We now went again to the base &
out took for walk. & Iained hard
in here

10 July
Wednesday
We all started up the side of the slide
laid at least: first by the bed of
the Brook behind camp & when we
hit the slide follow that. Rogers when
he saw the slide said it was new
to him & must have come down
within two years & almost exactly in
the track of the old trail: the rain
now began to fall & heavy clouds & fog
obscured everything but we kept
on up to the base of some cliffs in
the "valley" near the Table Land &
here the cold winds poured over in
shilly fashion. We looked & waited
but saw no evidence of change in the
day so came back home, sick
rain practically all the afternoon
& no sign of clouds leaving the Mts.
even when we went to bed.

11 July
Thursday

But on waking at 4 o'clock the
summits were clearly outlined &
we decided to go up. Left camp at
6.10 & could not help wandering &
straying on the Table land, to see
the many charming views of lakes —
Wts. Chesuncook & Sauradamite
& Moosehead & Chamberlain —
Rainbow & West Branch Duck
water shows the foaming falls,

scrub & forests everywhere. On arrival at top we took photos & had lunch. Then Rogers with Fernand & Collins started to the Mt. Peak - by the crests & the chimney & old Parnola & home down the E. slope of Parnola; while we worked them at intervals & continued our work of collecting on the N. W. slope: we took for mt. Twenty & for a long distance over corrasa under the large boulders in wet places, & I found many *Sieraria* incl. *Elongatum* & *Conostomum boreale* & *Polygonatum*. It soon began to rain steadily but the trail was deep & we headed for home coming down the slide & the brook. Arr about 4 o'clock & Rogers back at 5. Rained all the evening.

12 July
Thursday

A very heavy thunder shower in the night & a ledgehog trying to burrow under Churchill's bed kept some of us awake, but we had breakfast at 6. Rogers, Fernand & Collins set out for North Basin by trail & we started at home to arrange our collections. The sun is shining on the camp now at 11 all on the top of the Mtn is all cloud. The rain poured down all the afternoon & the Battivist to North Basin came

13 July
Friday

home at 5 o'clock & reported Arcticaspis
alpina in fresh as plenty over all
the floor of the No Basin.

We all went by spotted trail into
the North Basin & found the view
Eastward very beautiful & the
Basin entirely different from
this. It is higher altitude &
almost devoid of trees with big rocks
all over it, a little pond in the
middle of lower part of basin &
scrub spruce to go over or cut
way through. We found plenty
of Arcticaspis alpina tho' the rain
came down incessantly. Ronald
& Churchill & Rogers went clear up to
the base of the ledges & slides at end
of basin where we could see a
miniature Snow Arch tho' I have
no doubt it was big enough if
we had approached. There was a
steep cliff of gray rock on the N. side
of basin with us toward head of the
basin against which the guides
fired their revolvers for the echo.

We came out & proceeded
moreward forward, not
having a shovel en route, while
Ronald & Churchill & Rogers

stir along time at head of the Basin
& got many good plants, but all
the time in rain which was
terrific after we reached home.
We think Collins & FW & came
back with the guide Coxson.

17 July 1910
Tuesday
Fornal took Rogers & went again
to the North Basin to finish work
at the ledges & slides there while
we skinned at home & took a can
of yesterday's collecting. Collins
did not find so great variety in
these woods as we expected, also
there is an enormous lot of wood
the species are *Mycena splendens*
& Schreberi & various Diarrana
These make up the bulk of what
we see. The mosses are very
scarce & we have seen no Neckeria
& Orthotrichum. We got a Cladonia
on Caribou Lianas up the Big slide
& another on Dug ⁷ is the wood.
both different ones. Not much
rain has fallen today as yet. 1.30
pm but it is cloudy & dull & there
have been a few showers this am
Fornal & Rogers came home & our guide
tired out, they had a
no Basin but for

nobody never than yesterday. They ascended to the North Peak & back again down the ravines & slopes, & came home in a driving rain storm well wet through.

Tuesday
July 10

Sun rose into a clear blue sky & we welcomed the long lost fair weather, but we had no traps on hand to day for the men have to make two journeys to McLeod's camp to get our traps down for going home. They left at 6 am & I took several photos the weather was so fine, Kussey the Cook swapped the interior of the camp with all his by the fire & I took the Mountain scene the lake which may turn out better than yesterday I took there. Collins has showed me much abt the maws

11.30 am and continued pleasant until evening. A young porcupine remained all day long in a tree top near camp & at 5 PM came slowly down in spite of our attempts to keep him up the tree. As we did not wish to injure him, he scuttled off

never a brush trap we heard him
in the evening examining the firewood
of our kitchen. The men made
their two journeys down but did
not return in the evening so we
sat in the Lean To with Hussey
enjoying the fire and star light
making it the only real camp
night we had had. Emile today
~~met the~~ ^{met the} ~~the~~ floor in
other words demonstrated his
housekeeping capacity which
has thus far been submerged in
the rain storms.

Monday July 16. The men came back at 7.30
& we had long been ready for
them with bags all packed &
strapped. At 8.15 we started
over weather in the shape
white to totally at 3^o P.M.
while Tomalay was what he
thought was very drizzling;
Collins & I with Emerson
kept on to McLeods camp which
we reached at 12 in the ever
increasing blackness of a thunder
storm. It rained as soon as
the party came in

very wet. We had a break & set out for Bee Camp by the lumber road in a gentle rain which with the wet shrubby landscape was well before we arrived. The horses pulled the sled load across the river after the men had shut down the gates to lessen the water and with our packs were not really wet by the stream several of them were slightly moistened inside from divers causes.

Memo: Four slips of billy
blather or canvas sewn to
bags for the men to put coal
through if the bag is to be
carried. Thus when the

upper lines
represent the
straps the
men affix to
the bags for
carrying.

A lumber camp is a poor place
in summer & I did not sleep
very well sharing my berth
with E. T. W. & looking out into
the dark caverns of the camp.
L.B. Rogers came with Team from
Patten ave. at 7, and the
~~new passenger~~ S. L. Rogers,
~~Brook~~ got lots of trout say
9 dozen for us to eat so
hot trout, bacon, & cold beans
made over supper & breakfast
next morning.

Tuesday
July 17th Doubtful weather at 4.15 A.M.
"rolling" into rain by 5.30. We
got started & all horses were
3 miles to City Camp, & soon
after began to ride the rain
heavily & good deal lessened
the skill in evidence. We
reached Pekars (~~coprosecuted~~)
at 11 & had time, where the
Beef soup capsules came in
well soaked in boiling water.
We rode to Dairy Dame, over
the road which has been well
improved as the road where
we ride for exercise and
relief for pleasure.

Here E. S. Rogers & son got into a
stiff & he walked down pole
down among the rocks of the
Passaic river on his way to
take the stiff road to the
Ferry landing which they
reached before we did.

Collins & I stuck to the team
all the way out from the south
after reaching the crest of the
hill the heaviest rain of the
whole trip struck us & continued
all the way to the Ferry. We
overtook Miller & Bluebell &
Ferrall who had gone ahead
watering in the river by the side
of an impassable swamp in the
lowlands by the river & when the
horses finally followed, then
the water was far above the
hub, & had touched the
floor boards of our wagon,
but we lived through it.
We reached New Jersey
through & stripped at two
hot fires, & began our
usual drying process of
clothes pants, &

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Tuesday Fernald had to reach Boston as
July 18 quick as possible so he started
with Peter as driver at 10 am
for the afternoon train while
the rest of us spent the day in
getting plants & cloches in some
kind of dry shape. It did
not rain till the afternoon & Peter
reported that Fernald reached the
R station all done. A fine
summer shower with us saw
a wild sky & fine view across
the River.

Wednesday Up at 4:15, breakfast at 5 -
July 19 at 5:30 we were off for May-
ville, right day, R. & wind
white clouds hiding the tops of
Katahdin, fading into low
darkness later. The road
out way records, the water
filled it like a brook, the
willies were deeper than our
place we barely escaped going
over. Rogers advised to "get
your belt under you and
set down upon it" hardly
saved us, & the floating
concrete was more a
struggle for the horses,

Friday
July 26

and a trial酵母, but we reached
the Lawrence station before
1. Am. C. T. W & Collier took
the 9.30 North for Danvers
Churchill & I the 9.56 to
Boston. Hattie met me
at Biddeford at 6.20 PM -
Churchill reached Boston at 9 PM
Clear fine day wind East.
Left Biddeford at 4.30 PM for Boston

1977

17

July 28
Friday

Went to Hild's Pond with L. R. Woods.
did nothing Botanical till Sat. day
the 28th when in Am I explored sand
fields & marshy land betw. Beach &
Pool. *Spartina stricta*, & *Juniperus*
communis on the sandy black grass
land. found another the 3rd batch of
Arenaria reptans. Then drove with
Mark to Hills Beach off the Seawall
landing, & remained on a slab
sluff some time waiting for *stricta*
who did not come. Took some
photos of river at low tide.

1900

Agnewiet

Aug 24

Went yesterday to stay over night
with Mr. Kimball. Left home
at 8 am pretty late
in order to have time to go
when the train would be in
town about 10 am. So we
had time to get up a

Stellaria media,
then to Agnewiet about 11 am
by train & half walk road to top.
Larches & pines near Agnewiet farm,
a good grove of small larches &
with larches trees. Firs were
plenty at my place. *Chamaecyparis*
discolor & *lutea* common.

This morning we arose at 6 o'clock
to have a walk in the pine woods
& cranberry bogs back to the trail.

Carey Park with numerous hemlock
trees, Southern beeches, hemlocks,
the scrub birches, *Lysimachia*,
Epigaea repens & others.

PM we drove back to Wells for the
3:30 train to Biddeford.

1900 Warden vt. and Danville vt.
Nov 5. Left Boston with ab Dodge at 7 a.m.
arr Danville at 4.45
Nov 6 Walked abt & around the town.
beautiful Indian summer day.
counted 12 spec. still in flower.
Also the curious bulbous rooted
Violet Selkirkii.
Nov 7 Walked to Warden depot &
found curious branched Polytrichum
by the roadside close to Warden
village on the way to the depot.
Pogonatum usigerum P. Beauvois
Nov 8 To Bradford vt & called on Miss
Bacon & then to Whitefield vt
& at Dodge's.
Nov 9 cold snowy day & also the 10th
came home Monday Nov 12th
In flower at Danville vt Nov 6, 1900 the best.
Ranunculus acris *Solidago canadensis*
Solidago nemoralis *Chrysanthemum lucidum*
Tripolium pratense *Capsella bursa-pastoris*
Cirsium *Arenaria hispida*
Sagina *Achillea millefolium*
Oenothera purpurea *Taraxacum dens. corn.*

1901

Jan 6
Sunday.

Went with the children to the new pond at Heskie where Club were by flooding the meadow. Walked about around the pond & up the brook on the ice. Came back to Club house by woods & paths behind the Bank's home. The stove in Brook Gardner's sitting room & Webb's room broken. To Drayton - the last time from Hillville again.

Edison Marion Feb 22 1901.

L. Palmer, lodger by - L. K. & C. Boston Tuesday eve. Feb 19 at 7.45 + arr Bangor at 4.10 Feb 20: left at 7 AM + arr Patten at 11.20. Ed. Rogers took train at Stacyville + came to Patten. Capt L.B. Rogers met us at station + we got rooms at the Palmer House. PM Capt Rogers took us for a drive but the cold wind drove the snow about + we could not see Katahdin or in fact anything, so we stopped at Rogers' house + Mr. R. + K. L. - after talking with Mr. Palmer we decided to come here + next morning Feb 21. Rogers came with the horses + a pair of horses + sheep + Palmer took our traps, one team + we came on 12 miles to Spash Shim Pond to Cooper's for dinner: here I saw the Arctic Hummingbird, the English Sparrows were flying in + out of a hole in the Barn like Barn Swallows. After dinner the 15° + we came 10 m. further to this house + before we went mounted a horse another to a ^{recently} deserted ^{deserted} camp + saw the White winged Crossbill, warbler. We went to bed early + fine air made up less wind to go on was the fit.

Came to Chautaukai farm & he woke me up early this morning & off with the men at six o'clock. After breakfast at 7 we found to our surprise the thermometer was 8 below zero. The snow had up on the horseback ridge & the Katahdin was very dimly seen. I took Panorama views. Then we snowshoed thro' the woods by the roadside to the ~~recently~~ ~~discovered~~ ~~new~~ ~~waterfall~~. Saw Blue Jays, Canada Jays, Goshawks & some I knew not. PM we drove to ~~edge~~ by lake from ~~edge~~ oil & went in abt a mile to the lake: the trail was exactly like our Soudanabunk trail of 38 years ago. Saw a Pelated Kingfisher. It showed a good deal of white in flight - got ~~nothing~~ ~~nothing~~ ~~nothing~~ today very plenty & fine. The lake is large & fine & very wild.

Thur. today 16° above & at 9 PM 2° below

Feb 23 Saturday. Thro' at sunrise 15° below zero: after breakfast we started for Trout Brook Farm, going by or near Mud Pond & stopping at Brewster's farm his camp on a steep ridge before. Found trout in small lake. Here I had a pair of snowshoes rigged with a tent in Soudanabunk style & liked it much. We did not sit - will

The crew for day - in the woods, but had good time, too, gingers at daybreak & molasses - We drove to Grand Lake & across the East Branch to Trout Brook house & staid a half hour, driving home & back from 4 to 6 we walked about the fields up the horseback trail.

Katahdin whi was covered with clouds & we could see eight at Pomola, the Barn & house & the North Table Land: a fine sunset. Ther. 12° above at 6 PM. Ther 5° above at sunrise & a fine snow falling from a leaden sky, & this has kept up all day. Having spent some time putting in old & unnecessary things in my snow shoes we were about two hours in the woods & took little camp. After dinner went to the

Tuesday
Feb 24

Monday
Feb 25

at Meesos or Shun Poos. The wind was cold & blew very accomstly places after leave the road.
Arr at 12.30 & after some time in the flats, took our bldgs but no news for yrds home, went there to the post office where I chatted also with Mr. Gordon a legal lawyer man who told me they met Rogers who it seems was working at Brown's lumber camp where we called him.

Tuesday morning quite hard when we 26 Feb started to drive with Rogers to the East Branch. Called on John Cushing at Shun Poos and has bought a pair of his scudders which are narrower & with a much smaller neck than mine. In the wood before Gayville on the East Branch the new stone bridge we crossed the river round at about three hours driving.
Went to Shun Poos & visited Ed Rogers' little fort at the house. He has a double shotgun always which always when over the water he will shake it in the walls or altogether the place. We quite

founder. All the snowshoes at the usual gathering had a white or yellowish mass. The Necker
marmot do not blanket was to be
seen - took one tail. photo.

Feb 27, 1912
Left town at 7 A.M. took up the trail
between the two roads. The road
was to a hill path, a
steep bank or embankment now.
The skanner appears to have run
out all over this side.

Before the tree took root along
the sloping hillside to the ridge
& down by a road cut out of the
steep sides to edge of hill. Went
on to a small hill &
out opposite to where the
tree had been found. Took the
bank well prepared or rather con-
centrated branches. The took specimens
& timer & some old fruit & a few
portions of berries. The down back-
again to Hulless at noon. Took a
long winding trail in the overflowed
country across the river & down to Shaville
by 3 P.M. Train came along at 3.40 p.m.

Wrote to you late at night the post office
expenses for the train are at 6 P.M. Feb 28th

12. 10 a.m. returned. 11 miles north Newell, Gilbert's
Canyon, Oregon. Had no time to
explore but a short walk
yesterday & experiences with
over 44° reached thick Spruce
and Birch at 11,000 ft. so I
had no time to explore &
went to the lower clearings
of old fallings (small hill). Found a thin
dry road: got down to mossy stream
bottoms & one excavation giving
the same as low in section A. 1.

April 13. Went west to the Falls Station
in Madsen & up the Cascade
Rock, getting what is perhaps
a Thallium & also on White Rock
an Aurora, which I do not find
recorded in any Middlesex list.
Took photo of falls & then walked
to the Oregon State & following
station. Had lunch by roadside
in warm sunshiny day. Very few people
however in early flower. Wind
east & sub bright. Sun + 20°
at 1 p.m.

1901

July 20
Saturday

We walk by 5 or 6 willow-pole boats full which I gather him. He is a wanderer selling willow tips with the flowers in his malacca "the water". Apparently a talker but with a pleasant face. He goes about the country skipping always away to another & then + skipping at right places a basketful flowers. Hunting + filling his basket with birds, many flowers, + bandolines up the hills with all his strength. He will make about 50c a day.

12 May
Sunday

13 May

Barrelous - 1000 feet

West Osibee 5.10. Fine view at house
and walked up lakeside to James' house
P.M. to the top of Washington Hill; visited
the house. The 85° at 2 P.M.

May 23. We drove to Tawworth & round
Kemmerer Place & down a beautiful road.
Bright sunny day.

May 24. Took the train by 11.30, left by
12.45 train for Laramie; had carriage
to Piedmont Mission & road fine.

1. Thought there had a storm or more
as it was very dark and on
the flat with hillsides which rolled
down below. A white tail hawk -
the Mexican Sparrow & many other
things than the birds. We left
on 3/4 train & went back to Laramie
again - we started at 5.30.
Arrived at Laramie 6.30, stayed
overnight. The houses 55° & outside
table excellent - in about 1100.

May 25. Left at 7.30 for the tops of the hills
bright sunny. Saw the sandhill - a
fine view of the valley. The air
at 5.30 & change over at 7.30
between 50 & 70 degrees &
the thermometer at 7.30

30
Great to see you back to us.
George will try to be of his gay home
folk as with us a bit more
beautiful abounding we know can
be a joyous time.

Saturday very fine day with rest up and
state. We found excellent
all our birds at my old
habits, made 10-5. The more
I go - in the woods and
fields. Elsewhere I have a
surprise every now and then
these trips. On Sunday Mrs.
Richardson comes back we speak
of the great day from when
we started.

Monday rainy in the but I made up a
beyond Roaring Brook. Fox tracks
& Rook's whereabouts is reached but
nothing remarkable. This on the lake
side road. Come out but by
accident. Much excitement
is good fun & I have always
thought this was the best about fishing.
It rained hard all the time but as at
first snow banks in the country
fifteen to twenty feet high
& it deep - so it was the road
30 & + + to get up.

We went to Rockwood - very
well all, not so overexposed
but not much like the sun. Sun
very bright - with some
clouds, & all leaves were backlit. Also
Katharine got on a the leaves with
fl. branches are more than the
latter very overexposed. Very
beautiful golden light in the
out plate after sunset. The back
sunlit fronds will now be ex-
posed to 3-6 seconds. - see the
above for my explanation.

May 20 Today we set up lighting in the
backyard path to Bush Rock. Found only
one yellow *Oxalis* which did
not seem to do the job. But by
local *Corydalis* and *Phlox* have the
old lawn turned into - also *Lyttonia*
leucocodon. *Corydalis* has
a few flowers at present time. The
lawn still is from old - under
heavy lawn party like when we last took
here exposures in four years. Present
time there replaced the blue grass, also
a great number of weeds.
Rained hard all the afternoon, &
then some drizzling.

May 29
Whitney

Very cloudy out, not so much. Much at the 2nd Bridge, on big rock by roadside near Big Boulder & also on wet rocks in bog by the bridge found much more fresh & on exposure, some at low tide found a very small specimen of prob. *T. incisus* or some other warp pleated ones. Scattered - a bog by *Grindelia bipinnata* but in vain. By Bishop's Brook higher up found as before the *Arenaria* strata & the glomer. had more waves than the seaweed gives, & the lower 3 - upper 7. The *Arenaria* seen near Big Boulder & all stony & yellow-green, sometimes in bunch late in the afternoon rock called from the bark hole from the 3 seaweeds; they are fast disappearing. In fact found a Ribes which Stark got var subglaucomarginatum but the berries & petals are glaucous mostly & the calyx tubular but shaped & smooth. The stems were not naked but droopy erect often bush 2½ to 3 ft high - the one or two fl. remain drooping & the pointed to each flower open.

Onwards & upwards many more in, more, more
which means the division, across the
breastly common section of the, such
individuals are it is these persons

Thursday the 20th we were in a along road from
30 May road of two hours was folir gettin, we.

The we went to Montreal, driven down
to station with John Whitcomb of the
fishing Fish Commissioner & also Mr.
Ross. The express stopped for us at 4.30
& we arr at M. at 4.15. The ride
from Newport to Rutherford through
the Hill country is very fine. From
at the Hudson directly up the
River, too.

Friday
21 May Rainy at intervals all day.
we went down to see Quebec now.
Then we went to 60 St Luke St &
see the whole family fr Mrs A. H.
Snow. Henry, Jessie, & John & David
call on us at hotel.

Saturday Left Montreal & car & swoll
from Domine Bridge we crossed at
Capelacaway - West Brook &
1.45 p.m. 3.20. The flower in the
lake nearish at Newport is Duck-
Beech. I went down to Main
Road before sunset - got
Vitex - rose -

frequency of a flower & is caused
by Big Boulder which has sprung
a new station for it.

Wednesday
June 2

Waked up at 6 o'clock & soon
in the rain by Chevy Park. In the road
below shore, as at Beacon Beach,
it pours. We went to top of hill
view - in pasture Rockefeller's house
was now fine lake house & quiet.

Thursday
June 3

Waked up at 7 to Roaring Brook &
beyond. Collected mostly at beyond
Roaring Brook. Found much & path
to lake numerous & 1 to 2000
feet apart. Got small but very
large strawberries. This is the
most abundant fruit.

Friday
June 4

Cloudy & soil
on the beach at lake. Then at
Lake Shore 40° & 45° F. Dry
cloudy & with a very few poss. f.
rain, but heavy rain at 6 AM.

The sun still persists in the west by
the path to the lake & the bay is cool -
with north wind. I went to the lake
shore this morning & got some nice
Patches out on the beach &
extreme to the shore &

Viola incisa Irkts Cola in bud.
 This is new to the region. Got also
 very handsome *Viola Schleicheri* in
 a wet place by the Bag in fine
 flower while that in the pasture
 hasn't even flowered - much ago.
~~Cobea tricolor~~ in flower.

P.M. Went down two hours to there but
 came home speedily on account of a heavy
 storm. Found close by the Steinness
 entrance to More Point a remarkable
Corallorhiza with three equal similar
 petals, each with two ridges on it,
 while *C. nutata* has ridges only
 on the lip. It had a very upright
 spike of flowers & under each flower
 a very evident root as long as the
 ovary, altogether very diff. from
 nutata. The three petals were
 pure white & very alternate with
 the yellow sepals made a small
 lily-looking flower with the Orchidaceous
 column in the centre. I found two
 of these plants about two inches apart
 but found only one small coral-like
 root very deep in the black soil and
 after the rain was over went down
 the lake Road & went down
 down *C. nutata* for comparison.

The color & glow of the woods moist
in the afternoon light with every
leaf dripping water was a fine sight.
The snow bank still remains with
the Cedars. Here this evening 50°
Wednesday Very fine sunny day, gloomy quite
warm 1 pm. The Snow Bank had
entirely disappeared at 3 PM. The
West at 1 pm with road to Monk Port
the moss below looking in condition
similar to the one just passed over.
Went several interesting places
one with local trout more than
a mile long - with tracks to
east flowered, the tracks being as
long as the river & twice as wide,
one with deepest crevices & cascades,
several in bed, but none
with the so fine number beds
present. Went to the old farm
house by the wet cow path to
trough Brook & sawdust off house.
Very fine lyp. surfaces in the
woods below Monk Port PM
we all went to Green Tunnel: the
tunnel was somewhat ruined -
a timber road has been made
through it & in some places the
logs & brush have not come in

up under a tree in my
Keweenaw cellar. We dug Louisa, then
I have not seen her in many years.
Took Sulphur & Crayfish, Son.
met had hurt the Solids off.
Mrs. R. & Dennis has call to the
ordinary Confectioner about which they
esterday do, at Keweenaw Hamlet
Linen, Linen & many other articles.
Spent in woods at foot of Mt.
came out at Picnic House.

11th. We drove to outlet of lake
very hot, the 10° & 11° air.
Heads of breakers on roadside
after Porcupine Brook & next house -
After sunset first dragon flies
seen, one or two willows
or birches above. The vines still
flourish & stand at end of lake.
Bought two bags of best beans
few dozen photos, one of
Porcupine Brook & another of the
herd deer in the cedar grove.
but will wear away with
much powder in the bottom
city. The leaves falling early this
year are yellow at the edges, giving
the trees a sacred look pink
outside the wood you notice
and the vines like the trees

be covering them & here the rest of
the leaf then hollow out of a
yellow paper-like texture with
a hole on the upper side of each
leaf where apparently the insect
for needle has cut after being hatched
survived in the leaf. The part
of the leaf left unattacked is green
healthy & with a clear cut line
separation between the healthy
& hollow portions. The insect along
represents an almost infinite number
of eggs & a patiently persistent mother
to deposit one egg in each leaf.

Today last evening was cloudy and dark
and 7th no pitch tho' hardly any rain fell.
The morning temp. was 68° &
cloudy but scarcely a nos. of
rain. I walked up to the Rock
island & found one Nocturne
rest on one spike. Took a lot
of *Hedysarum* deepening on soft back
over Little No. Picked a buckler
with afternoon start 24 miles long.
& gathered *Pinguicula* places from which
leaving the base of the pinguicula a
white substance as large as the body
of the pinguicula. Rained all day
left Will at 7 & arrived at Lancaster 11:45
Drove to Cape Town & are to travel

June 8
Lat.

Blue Hill.

June 14

Went up Blue Hill & down the south side this pm expecting to find *Liparis liliifolia* but did not. Brought back two carex near *Conoidea* or *tetanea* that are new to me. Saw the *Asclepias speciosa* in fine flower & various *Panicum*. Very warm muggy afternoon. Carex *grisea* was one of the above the other a large var *petulifolia* glauca.

Wellesleyton & Newmarket MS.

June 15 Left Boston 1 o'clock PM East,
William, Judge Cheshire family
on the train also Mr Miss E. G. Hoy.
Arr. Wellesleyton at 5.30. The
first place visited is the Pittsfield
Building, the new Post Office, the
new Library, the new High School,
the new Hospital, the new
Highway.

After a walk of 1 Day we sat
down & after calling for Mr. Hoy,
lunch in the village we drove
by the Hopper to the pasture
then went to the church of Pittsfield
the road, on the right where
there was a gate with a small
field. It was a very beautiful
walk, - we arrived at the Parson
at Campion place the path through
the cedar trees is to the left rather
than the right & follows the brook
piece; here are several by paths that
& a chance of going astray there is no
bridge at a rock on the Pittsfield
Road & then kept the road to the
summit. Two carriage road,
to the top, one is Pittsfield road
both above, the former is con-
tinuous now & consequently

RADIUM AT WILLIAMSTOWN

NET2013

GAS FOUND IN SAND SPRINGS

"GOOD MEDICINE" OF THE INDIANS

And of the White Man, Too, Found to
Be Due to the Properties of
Radium.

The discovery of radium in the waters of Sand springs at Williamstown, widely known because of their medicinal properties, made early in the summer, has been followed by examination and study by scientists, who have determined beyond any doubt that radium exists in the spring, though to what extent it is a difficult matter to ascertain. Prof J. E. Shrader and Assistant Prof Brainerd Mears of the faculty of Williams college have been examining the waters frequently for the past few months and each time have found radium beyond question. The springs from which this radium gas has been taken are located on the north side of Williamstown, about one mile from Williamsburg. They are owned by Dr S. A. Lloyd, who has built there a sanitarium and large bathhouses and they have come into popularity as a bathing and summer resort.

As far back as the springs have been known in history there have been stories of their wonderful healing properties. The present owner came into their possession in 1894. He was then a practicing physician in Williamstown and realized that the water of the springs had some peculiar qualities. He began to use it for skin diseases and pneumatic troubles. He bought the property of Foster E. Swift, a well-known hotel man of North Adams, and immediately began its development. In 1895 he built a sanitarium, intending to develop the springs largely for medicinal property. The place was sought as a summer resort; however, and with that there were added large bathing facilities until now the springs are widely known as a bathing resort. The fact that the water contains healing properties always gave the doctor a host of trouble because he was never able to determine what they were. Every analysis of the water showed that it was almost pure, the largest amount of mineral salts ever found in a gallon was six grains and a fraction, which was not sufficient to be of any practical medical value.

About a year ago a chemist expressed the opinion that the healing properties of the water were due to the presence of radium rather than to any mineral salts. The positionness of the chemist led the project to place the water before Prof. Shrader and Assistant Prof. Mears. Prof. Shrader says that radium exists in the water beyond doubt. He explained the method of examination and said that while over any gases had been removed from the spring, the water always showed radium. The gases were caused as they bubbled up and were closely confined, and the examination made as soon as they could be taken to the laboratory. To whatever extent the radium exists, it cannot be Prof. Shrader says, of any commercial value, impossible to confine radium gas for any length of time, the longest that it has been confined being four days.

As far back as the days of the Indians these springs were known as medicinal springs. The old Mohawk trail passed not far from them, and the Indians stopped there every time they passed. Mason Walker, who died six or eight years ago at the age of 37, lived six years at the springs, for \$1 a week, and was remembered when a medicine man pitched his camp there and did a land office business with the water as a healer. Aaron Smedley, a member of a family of Williams-town settlers, as early as 1762 told of the value of the waters, according to "The Origins of Williamsonia" by the late A. L. Bush of Williams College. More than 100 years ago there was a bath house at the springs, for in 1826 an old paper published in Williamson, "The American Advocate," advertised the baths and the healing water of the spring.

The spring was then owned by a man named West. For a time the property was allowed to go down, but during this time the springs were visited every year by regular visitors, among whom were many wealthy and distinguished hotel men, the late Tilly Haynes who was enthusiastic over them. All kinds of stories have been told of what the waters have done for the sick and the lame, but so far as can be ascertained they never made the blind see or the lame walk. It is claimed, however, that they have worked cures in many cases of skin diseases and rheumatism, and several instances are cited where they have succeeded when physicians have failed. The present owner has developed the water as a table water, and is making from it a large and successful business, a considerable business in itself. No great attention has ever been paid to the curative side, and the examination of the water the past summer came largely from the curiosity of Dr. Lloyd and the interest of Prof. Shrader and Assistant Prof. Mears in the possibility that radium ex-

we found little to collect. On reaching
the top we went to the top of the 7
story iron Observatory for the view.
The day was very fine but hazy
at a distance. The Catskills were
distantly seen also Mount Washington
we called Ascutney. We found
Aulanthus oligocarpus on top, but
no characteristic Northern vegetation.
No people were on the summit aside
university of five. We walked
down the North Branch road to the
tollhouse $5\frac{1}{3}$ miles from the
gate post over at seven miles
at the tollhouse. The road in
the last two miles of the return
extremely brushy & so the
roads we found many good
things: *Micella diphylla*, & many
Boraginaceae spp. *Simplicia* and
matricariaefolia, *Hydrophyllum*
Virginicum, I collected only a
few mosses. *Polytrichum alpinum*,

1901

June 17
Monday

We walked to the house along the pasture edges & "sugy" banks of the Forest Road & up the road to the line into Belmont; there is a beautiful wet brook with fine bristly mosses covering the a water trough on the road near the line. The weedy bank gave good collecting. There were *Grimmia laevigata*, and some most beautiful specimens of *Cypripedium spectabile* global. We all had a supply. The *Carex lyngbyei* was infected by a disease which made the fringed double the usual length. *Carex trichocarpa* & *Schweinitzii*, & fine *variolosa* & *polytrichoides*.

Viburnum cassinoides & *Cornus canadensis*. PM we were at it work on subjects. Got up at 4 to take the 5 o'clock train to Boston, but it was 3 hours late & we took the 7.10, & arr in Boston at 12.40.

Tuesday
June 18

Spent the day at North Scituate with Taft. Got fertile flowers of *Nyscia syriaca*.

43

July 4. The family all being at Biddeford
Pool, A. D. Hodges Jr. & S. J. Williams
spent the 4th here: a pleasant
summer day & allowing much
extreme heat the past week.
We walked up Blue Hill &
down the other side home by
Widcat Notch. On the top a
very narrow leaved Pine shrub-
like, very scarce in parts
on South side - a young naked
Spars. Abies.

July 12

Left Boston 7 PM with Ad Hodges.
could have left at 9.45 & changed at
Bangor or Ellsworth for our Train, arr
at East Machias at 9.55 Are a
very pretty village with rather hilly

July 13
Saturday.

Leave Fr. Sanborn's Hotel & drove
12 miles to Cutler. part of the way
thru woods & again with views of
the tidal river or bay. Arr Cutler
at 12.50. The Cutler House kept
by Mr. Grothusen looks down the
fjord like bay to the ocean. The
white spruce abounds here & the
fir & spruce all have fine pungent
cones. After dinner we walked
down the road & then crossed to the
ocean at entrance to Little River
or "the Harbor" as here called.

got *Vacc. vitis* *Idaea*, *Eupatorium*
Rhinanthus, *Euphrasia*, fine
Lysimachia septentrionalis
seeding out rooting names from
the nodes, *Grimmia Narikina*
on the cliffs at entrance to Harbor,
& a large *Orthotrichum* on old spruce
tree at shore, *Hieracium* *bowlii*,
various *comies*. *Eriophorum alpinum*
& a very glaucous *Plantago* at shore.

Never saw so blue a Penitago & the ordinary Mariana grew rather further in size. A very brilliant summer day with West wind, Ther 68° at 6 PM & 60° at 8. P.M.

Sunday
July 14.

Day rather warmer than yesterday, Ther 75° at 2 PM but a fine breeze all day. Ther at 6 PM 67°. A.D. & I walked down the Cone road to Corbett's Point. Met Mr Corbett the York up to a ruined house on the Cone, & the Harbor, up above Middle; it looks like school lots for him on high side but roads & houses enough & never ruined. all road down during the drest season over Kittery on the coast of Maine. What Mr Corbett found in last summer by noticing that tho' the leather camp was quite dry his boy never appeared to need water when the sun was hot, so he sent a boy followed his son long to the land in the woods; there were no water bugs & apparently young mosquitoes in it. - one rock a skeeter proves & there are other different species both some 127 & males were only one or two left to eat breakfast.

I got today Louisa's card & the
boy said I am brother - probably
perhaps, as a father probably
with perfectly smooth fleshly hair,
& wrinkled brows, in fact the whole
man less than two weeks, this can
be made by Cobalt Stone in about
that as if from sulphur for skin.
With it also the paws harden.
Also get the dog with short hair
from Spain at Barcelona & one
with glaucous hair, & a very long
stiff tail with hair, the others
the same here too. I have in
a basket this morning specimen
of what men will be, & one of
the various colors, also features
Soline for foundation as well as the
exterior & features. Took news of the
Span who he fears of the heat as
the thermometer so very the summer
while in our art. But arranged
my plans - we visited a college
near by that is so vast.

97

July 15 Day very warm, 92° at 2 pm but cool enough when out of the sun as a brisk S.E. wind would blow all day. We walked to Demarest's Point & had dinner at Mrs. Demarest's house 25 cents each. Here we could see Old Man Island with a colony of Sea Gulls on it & Wash Island and part of Coors Island with the Beacon pole of the Life Saving Station on high bank ledge of rock. Just below the Demarest farm house the sea beach is rocks & large stones & the bank is a wet clay with springy places & whiles of small area. I hoped to find some rare things but did not. After dinner we walked back to school house & explored the sphagnum bog near by: *Sphagnum*, the two cranberries, *Carex Magellanica* & *comata*, *Convidea*, *Ledum latifolium*, *Rhodora* & *Louisia caerulea*, *Kalmia glauca* & *angustifolia*, on wet bank by roadside *Tussilago*; the spruce woods are very dark & dense when you enter them, & the fir balsams here come when not over 15 ft high, also the white & black spruces. The evening at the Hotel was also quite warm.

1801

July 16
Tuesday.

We walked on the Lubec Road about a mile out being out of the wind & in the hot sun we turned back & took point path under the Spruces & visited the Tin mine near the shore; the shaft with deep water in it & a big pile of refuse & the roadway thro the woods are what is left of it. I did not hear when it was worked. We came home to dinner & having telephoned to Sanborn's Hotel at East Machias he sent over Buckboard with same driver (Cummings) who brought us down and at 3 P.M. we said Good bye to Mr Grothues & came by the "Back way" by Gardner Lake a very fine 15 or 20 m long pond to the village & had tea at Sanborn's Tavern. We had heard at Cutler that Gardner Hotel in East Machias was the better one, (it certainly is better situated for air & view & perhaps the families would be better) but we had an excellent clean & good supper & got the 6.47 train for Calais; arr at 8.15 & found the Tavern, the Hotel St Croix Exchange, & our bed room

extremely hot as the day had been a scorching 97° , but after opening windows we cooled off somewhat.

July 17. We left by Boat at 7.30 & went to St. Arviers & by Bus to the Alougnin Hotel: this place we found hot & still and we did not walk about any for the roads are far off & all about are open fields & cultivated land. So after a lunch at 12.30 we drove to the Boat Landing & took boat at 2.30 back, arr at Calais at 4.30. We took 6.30 train for Eastport & arr at 8.24. Stopped at the Groudy House, Thes 63° . we walked about the streets before bed time, watching also the people come to the P.O. for the every mail.

July 18. Much fog in the morning which suddenly lifted at 9.30 & we took the French Boat back to Campo-bello which took us very beautiful a mile & quarter away. We visited the Hotel. They red & called on Mr. & Mrs. Halls. We walked to the Hotel down for a nice new good lunch ($75c$) & took 2.30 boat again for Lubec

back to Eastport at 4.30. A heavy fog at Lubec prevented us seeing southwards down the coast, slow patches of fog lying over the water. Campobello is a very pretty place & the roads must be fine. The 62° at 4.40 when we reached the Eastport Hotel. There is a small Public Library building here, the Peacock library. We went up to the top of the hill above the hotel, the water tower hoping for an extensive view, but it began to rain just as we reached the summit & we returned soon: the showers continued in the evening.

July 19
Friday.

Left Eastport 7.33 by RR for Bangor & arr at Beddington 6.24. Day fresh & bright.

July 20
Saturday

Day rather muggy & warm. PM Capt Fletcher took us in Buck boat & drove to old deserted farm in woods & home by Fortune's Rocks.

July 21
Sunday

Warm & muggy. Did not go out all day. Reading Proof Gno. on Hebrew from the Old Test which with Bishop Colenso's at Pentateuch wh. I brought with me gave me a new idea of the Hebrew scriptur.

July 22 Warm day with brisk West wind.
Temperature 88° in the shade & 94 at the Life S. Station.
We walked with ad but not far.

July 23 We drove in Bushboat over the
red house & home by Fortune Reefs.

July 24 At home all day.

July 25 We + others found a
mud air came from campings above
Moosehead at 3 PM while Nellie,
Dorothy & I had dinner to Kort.

July 27 Saturday I walked to the point in Moosehead on
the rocks there some pools of fresh
water similar to those at Cutler
of various sizes and depth, & in all
them even when close to other
brackish & salt pools the water was
fresh & good. The first few rock
pools where took 15 min & took all
the water out & did not fill up at
all; but another similar pool has
consequently due in the drainage of water
from a man by storage. The whole
head has a number of fresh or less
brackish springs - they appear in
a variety of conditions.

July 28 A hot East wind from all day.
July 29 Brisk West & cool at noon. We
just met with rocks by getting
back. There are more fine ones

and a different form of *Bubo virginianus*
to me at Easton Point, probably from
depth of the ledge & not in marshy soil.
Lepidium apetalum in very small on the
old station near both species, also
Habenaria lacera.

Aug 15
Thursday
Scituate

With Sinclair & D. H. to Scituate, R.
got off at Rockville where Rose & I -
we kept on to Egypt station where we
met Reed & the Beach; explored a small
H.H. place in pasture on light soil
near the lake & got two *Primula* &
a very young *Asplenium nidus*.
We turned in to Ocean Ave. leading to
the Beach & up top of the hill got
fewer woods & grasses - going up over
the hill saw on the slope before us
a male pout on the side of which were
just out of houses blossoms for a few
days - not yet open & addressed the
word "Wendy" to the trout which
smelt the flowers & swam over
the road. Then down I went up to
Cove Hill & the top of which was
contaminated with oil; got leaves in
grasses by the roadside, took a 20
min. walk.

1901

53

Sunday
18 Aug

walked with W.H. to Randolph Reservoir
 back by the Reservation Road excepting
 turned off by right hand path & came
 out on Randolph Turnpike opp Falmouth
 Spring, a very good drunks place.
 Got a very few things.

Sat
31 Aug

with M.K. to Randolph Pool on
 12.30. M.A.J. & H.K. to Marble-
 head at 12.40 & on yacht Foam
 to the Pool with the Keene's,
 Miss Devoreau: They are on
 Tuesday morning Sept 3, having
 been compelled by bad weather
 to stay in Gloucester Harbor
 over Sunday. Wednesday Sept
 4 M.K. & I came from the pool
 to Gray's Inn Jackson N.H.
 Fine every where we arrived
 with sunlit flat Western low
 snowy day else Franklin
 discovered was the day

& going
 down nearly to lower Bartlett, the
 day was very warm; Salida
 a narrow place the roadside. We
 took the Horn Hill road back then
 going by the Gray cottage, now
 no longer a residence: we stopped

are a few moments & the two ladies showed us over the lower part of the house while we strolled the lawn & the two Lombardy poplars, one each side, of the road close to the house: below on the left are the houses of Dr. Wigfall and Mrs. Fox both Mr. & Mrs. On our first feet we decided to leave Jackson & get the 3.45 for Whitefield & for bridges Matthew Hines; two rooms rented today were given us.

Left to
Friday

Day very warm but Miller & I played our round of golf and in for Mr. Kendall as we were in his law home back took his books, the above day was a fine
mild morn, moon & moonless & a
beautiful cloud effect thru drive.

Sept 7

Just as we got home news came of the assassination of Pres. McKinley very warm day. We did nothing Saturday but rest, called on Mr. Kendall Sunday cool day turning the 72°.

Sept 8.

Miller & I started to walk & seen a sign Lancaster & decided to go there to dinner so invited by Russell Parker nice man from the road back on a

about one hour some 9 or 10 miles.
 lived at the Lancaster House -
 called on Mrs. Freeman a daughter
 very beautiful from the year of the
 Miller slide 1826; I tried to find
 if she knew of the whereabouts or
 existence of the record books
 the old house kept by her father,
 but she thinks they were burned
 in the fire: she told me the day
 the botanist had very small but
 the smallest she ever saw on a plant
 & easily got forced on his mountain
 ships. She gave me the address of
 her elder sister Mrs. Wm Hayes
 on Hancock & Pearl St, Stenham.
 We had carriage to bring us back
 fr. Lancaster & ave. home \$4.50.

Monday
 Oct 9.
 We bade Mrs. Freeman adieu
 & we took \$4.50 to the Chamberlain
 Inn & we hoped it would clear. We
 left the Chamberlain at 8.40 & went
 12 miles to the Rainie No arriving
 at one o'clock. The smoky haze
 increased all the time & we could
 see nothing over 500 yards away.
 no mountain at all with a
 few tall trees here & there.

1897.

1901

side of the range I was much disappointed. We took 2.35 train back to Appalachia station & arr Whitefield 3.45. No Dodge motor is not working.

Tuesday
Sept 10

We remained near the Hotel all day mostly playing golf with Mr Gordon Trumbull.

Wed. Sept 11 Left Whitefield 9.05 & arr in Boston 5.30, being 45 m. late.

Sunday
15 Sept

Spent last night at Smith Williams with Fernal & we left by 7.38 train for Cataumet on the Cape. arr 9.20 & went to two small ponds then to Flax Pond a beautiful sheet of water in the woods. On its shores *Hypericum edule* & another new species. Train to Cataumet Station & on dry hill *Lycopodium scrobiculatum*, *L. lucidulum* & *L. complanatum*. It was a fine cloudy day with J.W. Gaytman. We left at 4.57. Booked 6.38 & took 7.19 to Readville.

Bibleford

Sept 17 Came to the Po^o in a heavy rain
Sept 20 went with Capt Fletcher in the woods
near "Bebeks" & home & got a few things.
Sept. 2 Hal came up today over Sunday &
Sept 30 he & I went down at 9:30 am & mother
Ma & came Wednesday Oct 2nd

Camden Maine,
went to Camden on the evening of Oct 7th
returned Monday Oct 14th.

Hannabis in blossom: caught some
seeds of what seems to be *Polygonum*
pernatipeda, growing to freedom: it was
growing on W. Wilson place: Saw also the
black oil on Dr. St. every
way we drove & since cold
up to the top, the snow to the ground
is now free.

1901

Oct 20
Sunday

with Willman Ried Rich to
Winchester visited water front -
Rowe's Pond & Top of Horn Brook Mt.
Saw *Schizodonis*, *T. Newaepla*,
Scopus Hallii, *Potaria* &
Ciliata avensis; also small
leaves visitors with poplars,
flower on sun plant. Atland
Pond where *Polygonum* &
purple loosestrife found
but no fruit.

1901

Sunday
Dec 1.

Fruit came out in wet ground, etc
my leaves from ciliata 11 little
leafed shrubby grass

1902

9

Jan 11. Walked down railroad - across to the
Woleott land in the Reposeet River River.
The new leaflets had come down the
Lambrequins and the old pods of the
Lilium Canadense in the meadow
attracted my attention from the
stout net work of fibres which
kept the cells from opening too wide
& effectively prevented the seeds from
escaping; the pods are upright
& the seeds must be ejected by the
wind lifting them from their hori-
zontal layers & blowing them out
at the open apex of the cells or pods.
several pods had seeds in them
but these were not laid in close
order as in the newly opened
capsule, but as if many winds
had tried to eject the seeds &
what were left were in confusion
in the bottom of the cells & might
perhaps never be lifted out. Above
place among the red cedars were
myriads of snow fleas on the big
red cedar & so at soft sunset, the 35°
they appeared to be flying roundly in
this particular region of Red Cedars,
were yet not fallen from the
trees, as none were on my

60

light colored felt hat as I walked among the trees & none on the little patches of soft snow clinging to the trees; nor did any fall to the ground when I shook the trees. Also among them but in small number was a four winged fly 7.5 mm long, proboscis two of 3.5 mm long & two expositors 2.5 mm long. Eight segments in the abdominal body & a light colored fascia band running down the middle back of the abdomen with a dark fascia band longitudinal band each side. The snowflea is 1 mm long over all, his two proboscis are .5 mm making his body 1.5 mm. I did not see any among the maple tree, in the swamps, only at the place where there are many red cedars. They quickly sought the cheer of my foot marks in the snow & were lying there in black tufts almost as soon as my foot had left the impression in the snow.

1902

61

Feb 1

Camden, Maine

Left Boston 1.15 yesterday with A.D.H. for
arr Rockport \$35. Got two post offices
19 & 20 at Thorndike House. At 7.40
this morning to Camden by Electric car.
Entered in Mrs. F. C. McKay & then walked
up the road to top of Mt. Battie, some
frozen snow on Mt. Road but none
in the village streets. Good view tho'
sky soon became cloudy & cold.
On highway came back got what
appear to be Hemispheres with
longest growth in brackets, well
shrubbed with bright yellow rosemary
dots & a bunch of old leaves at
ends of the branches. No other
shrub in my sight. East.
Mrs Andrews took us in a boat over
left us at Rockport when we had
car back to Camden.

Feb 2

Sunday services 27° in snow and
more rain & in the evening a good
strong thunder-storm so we
stayed in door all day. I read in
between Colloquies between

Feb 3

Left Rockport 7.20 - on boat - 4m

1902

March 12. To board the train west at Boston
10 AM Lowell 10.45 left Lowell 11.25
Carlisle 11.43. Left Carlisle 2.15
Lowell 2.35. Left Lowell 3.03 via
Bedford Boston 4.20. Day
clear & bright Sun abt 20°. One
pine at least 100 feet high.

March 13
Thursday Day warm & spring like abt 55° at
6.30 AM. Song sparrows about the
house. Blue Birds seen by Hal.
Last Friday near Paul's Bridge.
The Acer dasycarpum at Roxbury
comes off very nicely & in full
flower today & I never have seen
& so early before.

March 20
Sunday This remarkable March culminated
in a most remarkable Easter Sunday.
P.M. walked in Kennebunk placed.
Saw 3 flocks Wild geese, butterflies,
moths, clocked adder, marsh hoppers,
water spiders, frogs & others.
Day warm & pleasant.

April 2 Walked up Blue Hill with Dr.
Merrill. Before & after Redden, got abt. 40
of hybrid oak. Mr. Redden also a
Rhododendron for May 1901. Saw first
Peacock fly catcher, the Pheasant.

April 13
Sunday.

E. T. Williams came out & we drove to corner Pleasant St & West Horse Lane, walked to Blood root place but found none, then along by woods & meadows to brook to Green St again North of the new - Lawl. Cabot place, then by Green & Green ledge Road to Fox Sparrow path & thence to Mr. Hemmings place. Here found one flower of *Asterella pulchra*, & *Equisetum arvense*. Then drove thro' New Can & to Harvard.

April 20
Sunday

E. T. Williams came out 8.15 from New Haven in Reservation to the Park place near Chickatawbut & by Bonney's Brook path across Never Faze brook went to the back road & Providence & thence by that road to the Pease's road over Chickatawbut to Randolph Turnpike & home by hill side St Dennis Blue Hill. In a warm exposure on path near Never Faze brook *Viola riviniana* Smith in flower, also two large bushes of *Kalmia latifolia* near the brook, *Corydalis umbellata* & *Pennsylvanica* large enough to identify on Chickatawbut not a beautiful *Viola blanda* in full flower and very very fragrant. *Hedysarum* *canescens* minor in flower.

1902

May 11
Sunday

Drove with NWK over same route
in BKR as with E. F. W April 20.
Brunneumata + *Vola pubescens*.
Got fruiting species of the *Vola*
blanda on the Chickatawbut
roadside E. of the view place,
same place as with E. F. W April 20.
The red spots on the stem & large
leaves make me put it with
alophile because the these
characters are not constant
it's very much mottled & staining
less, not so noticeable &
distinguish it from *V. blanda*
at such places.

1902

May 21

In town 6. 19: at ~~3rd~~ Grinnell Place
station met Geo Prosser, Miss Richard
11th Munroe Ave took 7.04 train to
Warren: pair of horses, open buggy
Rocky drove us thro. Brimfield to
Holland, second team with two
men following took car of our
horses now ate lunch before
pine grove: met the minister Rev
Wells drove on again over
Pleasanton Pond navigation down &
down in Connecticut & back
again into New Haven & New Haven

(5)

in the Newbridge branch of the Penn.
4. AM: Took train for Palmer and
lunch at the RR restaurant. Left 6.38
Brookline 7.04. Home 9.15. abt
2 miles drive. Saw the Commonay at
its nest. It was the culminating
day for all a fine sunny, sunny,
dry, cloudless. Got another
brood of birds to measure
but went too shadily on the
road to collect.

Sunday
25 May

A.M. with S. F. W. to Green edge rd &
home thro Newbury land. Day very
warm 78° . Did not find any
Habronus rosens which we went
out to seek. Pictures in blue flower
Dumb Honeysuckle. took care.

July 1902.

Chester - July 1st, 1902. Weather moderate
Maine with William French & Collins.
Our boat machine ran from the
morning. We stopped when we
got to the beach or at the
lighthouse. We were able
to get some specimens.

July 2nd 3rd From the rain. Weather 54° at 3 P.M.
Up early 7.45 - changed dress & put
them in the bright sunshine. After
breakfast walked along the Rockwood
beach & found a few specimens and
on the little bluffs near by the tide
was blue with it so we got an
ample supply. Noticed the peculiar
sepal, short involute rethesis &
with an apiculate point or awn.
On the ^{marshy shore} ~~stack~~ by the bridge got
Stellaria humifusa & *Triglochin*
palustris. Found the large *Poa*
domesticata near the Iris Beach
Mr. Corbett thinks it has been
named by the old fish debris
from the lobster pots because
near its vicinity, growing

Found two more flowering species & a big nodosa tree & one of *Mertensia*:
Sphagneticola *Ranunculus* was plenty in
the grass in little hollows of the cliff.
a very deep brown soil, rather
crispy spongy seems to be down
on bare rocky stuff. The shore is
certainly wildly rocky rough.

The spec. of *Paraxanthium officinale*
var *palustris* with remarkable
scaly awl-like bracts found.
We came down to the village down
put up plants in sun.

Highest tide today 72° & 58° at 0100

3 July
Tuesday
The wind was blowing with very appearance
of a hot summer day. Left village at
15.30 & we drove behind a large
forest and white horse 15 pds led to
Big Brook with thick trees.

On roadside *Botrychium simplex*
metacaulifolium - Virginia the
very small form: here in a grassy
moist hill side ground: soon
we came to a large patch 100-200
feet square of *Brodiaea* flowers
the forest back and a 1/2 acre
in diameter. The grass is
thin here two years ago it was
as tall as a man.

Colby took boat off the hill with us at
the last lunch or we at Bay Brook -
it was here we did all the gathering
there, brought their first crop, etc.
It rained hard all the afternoon. We
walked down the East side of the Brook
to the small beach & rough limestone
rocks at the sea shore. Got *Carex*
virginica very green, *Equisetum* (?)
littorale, *Glycyrrhiza leptocephala*,
Cladonia mitis, *Lithophragma* in
new fallen pine woods. We climbed
up the cliff to the grassy meadow
above Culveray's Cataract, &
struck for lone pines in the rain.
This out on the wall pasture, on
the bare bed was built by the
housemen, big logs standing
as either a roadway or a
stone-stones reflected from the
cliff rocks nearby. I surmised
it might be an old road leading to
take the hay loads down to the shore
by steamer before the days of a
motor railroad between Cutler & Lubec.
The house - the basing had cut & reflected
it further inland & fixed always in
open heart coniferous & meadow -
on West side of Bay Brook - no to
the lone pine - lone pine

July 4
Friday.

We waked & hove along in boat past
to little boggy pond (Hotel Pond).
Prothonotaria (the teal) + also
a *Accipiter*. *Carex magellanica* +
lunosa, then over the hill to the
mill road to pond + saw-mill +
followed the brook to the salt cove
at ridge - some by the road -
Stellaria humifusa, *Carex maritima*
& *Norvegica* + a *Ranunculus* Gmel.
joined in its roots to a *Glaux*. This
Collins photographed in the sun
other I passed it. A curious
prostrate *Juniper* like before.
Also *Botrychium simplex*.

We came down to Litchfield after the
town which was well filled
with people for the 4th July sports.
Horse race, *lugeque* + Horned process.
& a baseball game between West
Lube + Custer. The day was
clear & fine, cool wind, the 74°
pm. I laid at home carrying
the plants + at sun down
brought the "Boat of the
Maine" a balloon-like + a
float in the rear and carried
out a load of 7.

1902

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July 5
Sat.

With the old white Rose with her Town
as Guide we drove 4 miles out on the
Whiting Road to narrow belt of
a big sphagnum bog with scant
growth of shrubs & low bushes on
it, abt 1/2 mile across. Here we
found Rhiz. Chamaesomyrs in
young tufts & some few flowers.
the peaty sphagnum was dry to
walk over & my rubber boots were
a burden. The plants were all
buried in sphagnum & the Sarracenia
looked green but vigorous in the
soft bed. Sarracenia & Utricularia
vires foliae, Sarcodes sanguinea
Sphagnum trifolia. The same
back by 12 o'clock & after taking
care from plants & heavy down
took rowboat with Capt Ackley
& the light house keeper at
entrance of Harbor. Selina Rhododendron
was very blousy on the rocky ledges
& in the little railway under the
bridge to the light house so the Big Bell
was Monilia which overpasses
the Woods & all the few desert
Arctic flora is now here. We
also gathered 1300 Epipactis
Ranunculus for distribution &

took several of the little *Plantago* were
quite ripe. We came away at 5.30
after admiring the beauty of the shore
& sea, & never saw its equal for
a beautiful sea shore shot.

July 6 Monday I walked in the wood back of
Hotel looking in vain for *Bryonia minor*.
Mr. Mrs. F. S. Dillies came by 11 o'clock
walked an early dinner & all in two
boats to the other shore & Western Head.
There was more wind than yesterday
they soon landed me on the other
shore & William & Fernando got off too
& we walked the edge of shore & one
place ploughing the dense spruce
thicket. A small damp swamp
at one place & just before the head
which is an island at high water
& got *Carex canescens* the real thing.
The others all crossed the wet sandbar
to the head but I had Capt Ackley's son
in one of the boats pull me across the
confluence to the harbor by the island to
the other shore & I came home thro' the
main village. The others are there
where he did not add anything new
to our list.

July 22 1952

July 7 After the dinner at the Inn -
the rest of us strike our long pack & start
passing last house two cedar Evans' -
set to a high ledge of rocks. but the
path did not bring us out there -
afterwards Fernando went alone & we
came back home. He found *Betula*
cordifolia & *Lycopodium*. arnot. & *Juniperus*
We came home to dinner & the room
joined us: at 8 PM we made ready
for our departure I have Fernando
& F. T. Collins to Machias & E. T. I. stay
a few days more at Cutler. I drove
back to Gardiner & East Machias,
where we had a short very good supper
& took train at 8. 21. I reached
Boston 7. 25 AM home 8. 7.

1902

Cornell University

33

11 July
Sunday

By boat to Ledge - last night wet.
Sun 6 AM; very quiet night.
I waked up the road toward the shore &
into the woods at base of the ledge.
was surprised to find so much Alum
irides & took several other things &
some ferns.

12 July
Sat.

With Mac & T. B. to the shore above the
shipyard west by the cottages in the
woods was by road to Belmont sat.
On shore a very stout Poa, resembling
me of the Cutler Poa but with a
strongly compressed culm. Took several
specimens; also in the woods very few
some good fern specimens, which I
certainly used in the. At 4 o'clock
Rep. Sarah Brooks & Miss Price came to
call. They are at the new dormitory
to & came by boat.

13 July
Sunday

Got up early & at 6 o'clock went down
near the Christian Science church -
found her some Indian Mallow &
few last evening, also one or two
species of a small vine with the
+ petioles hairy reminds me in
form & texture of *Strophocarpus*. Dry sun
at 4. Then 80° in shade.

242 Cawdor Mo

July 17. left Boston 11:15 yesterday: arr Berlin
17/02 9:30 AM then 7:45 PM we
Thursday came to Cawdor by Trolley.

To day with Mac I portaged up the
Mt path. Notes at few things but
found the rocks & grass very slippery
for my boots. Came down to the mt
at base of the Mt on last side. Got
some *Pleurozus polyodonoides* very
elegant specimens of *Lilium rotundifoli.*
P.M. we all drove to the Gulf of
Caledonia we having heard
Cyprinodon speculifer was here,
I found too good specimen for us
to take. Also *Carex* & *Magnolia*
stellata, many *Clintonia* & a
few other things. On the mt this *Me*
spizella breweri

July 18
Friday
Left home at 6 AM with Mr. Morris
to the Big Swamp by Day Lake where
I was yesterday for went across it
coming out beyond Mr. Lelles house
till the telephone pole line &
breaking off the other. Found
good spec's of *Cyp. speculifer* the
most fit had gone by. also
Pterisiles & a very large *Urtica*
imperialis got home at 11:30 &
are taking more plants.

sun-brewed afternoon tea. Barron now

July 17 Sat. " AM in Rockport to return the soldiers' coll.
PM we all drove in two carriages to
Rockport & returned by Cedarwood Lane.
Woods albe Adlumia violacea
Habenaria hyperborea, & what I
have called *Hesperis*, a much broken
large thick-leaved crucifer.

July 20 Tuesday Dull & often showing sky. Walked -
short piece up the hill path in an
int. foggy rain but we saw
Potentilla tridentata. PM at
4.30 with Mr. L to the river bank
near woolen mill & crossing a
log bridge took path thru woods
to road near Bon factory. Deli-
berately repeat *Symplocos rosacea*
& a beautiful white lichen

Wednesday Came here by boat - fr Boston a/c.
July 7. at 7 this AM. I took electric
fr Rockport village & walked about
a mile down the Beachamps Point
Road exploring the rocky woods where
I found Adlumia when here before.
got several things & pressed *Viola*
repens & a leather leaf *Asplenium*
Equisetum hyemale & *Thlaspi* a bristly
Pteridium. *Aster* *microphyllum*
five large Solanums & no more than

1902

Aug 8 and 9. - See in the notes.

Aug 9. In the morning we were in Rockwood
running the river. - went to town
at Lanesville Beach & home by the
river. Collected a few things, Espe-
cially *struthium* - *Kaben*, *psychotria*.

Aug 10 Sunday
Walked to the P.O. & in vacant lot
saw a dozen orange plants *Sachetia*
Scrovia took one & as I do not
find it & record in any Maine List
shall collect more when it is in
better condition.

Aug 12 Walked to the steamboat wharf & at
last got in little fresh water dip
got a *Scirpus* with long sickle
fruitlets to ordinary. On road
street to village two " good *Juglans*
nigra a tree in fine fruit, about
30 feet high & spreading rather
than ascending. Another patch
of *Sachetia Scrovia* behind Mr. McKays
paint shop. Rain began at
1 o'clock & came down.
went to Boston by steamer boat the
late & Rockwood.

Aug 15 Wrote for Boston at 6 am by the City of Bangor. Walked before dinner in the woods near house & up to the ~~bottom~~
above Ausdavis house & so to Belfast road & into the field again opp where I & so home. Habenaria tridentata
& in pasture a Gaylussacia not yet
ripe but with plenty of green berries.
PM rain.

Aug 16 Fine clear day. We went to ditch
Saturday near Steamboat village & got
specimens of the Cyperus gracilis
the wall of the ditch.

We walked up Mt Battie with
Mrs. L R W. & Miss Dickey who came
last evening. A very magnificent
view. In foggy place on top got
Eriophorum & noted how late
some bushes of the Gaylussacia
resinosa were in fruiting, having
still young green fruit. Present
some dozen or more things

Aug 17 High tide & much water
on ground - vegetation - on land very

Alceas 9 Went home with Mrs. Barron

38
Pasaden

1902

Aug 30 Arr this morning by Boat. J. C. Rand
on boat to going to Wm's Hove.
Sept 1 Walked to Horner's Point & collected
~~water~~
Sept 8 Home on Boat with Ad A. Jr who
came money Sept 6, + also with
Freelan who came Sept 5.
Sept 12 Arr in Boat for Boston,
Collected Mys & Cricket &
Saw Adiantum pedatum in
herbarium.
13 16 Came home by train

Nov 12 ^{W.M.} Left Boston with Hale 1:30 arr Adam,
2.15 via Pittsfield. Had Train (fair-
man) & arr Savoy Hollow (B. Ferry)
8 miles by south road thro Kent &
Cheshire at 4.20. Hotel Kently
Mr Barker. Next morning he &
I drove 1½ miles to New Milford on
the Vermont road. Some in
woods two Peccoptilium like mosses
one epiphytic Senecioletum with
a few ferns. After sun
drove back to village to 12.30
ook 2.0 & walk to Pittsfield. Spent
the evening walking up the hills
back - took the road to Milford
village - one 3.00

1903

July 21 - hot & very dry in our cabin, but
cold rock was elsewhere.

Chas & Faxon & Walter Faxon came
on T. 10. R. 15 train - we walked down

Sept 25, 1903

- Swallows,

Concord (Me) Black Walnut tree Broadway

Mr Frank A. Stevens " the

door yard. Near to the

Hosmer Pond & hills in the

3 1/2 miles from the village in the

This one of the first emlock groves

selected places in town & none

David Harrington's in bloom.

first owner. - Debarr same up.

at 4 ft fr ground 100 ft 14

girth is 10 ft 4 inches.

spread 74 x 70 feet

height estimated

at 90-100 feet.

The white notch is

7 ft fr. the ground

& is a staple record

1903

April 21 Pine trees very large, but
the Woods not elsewhere.

This is Foxon's Waller Taxon com.
and has about 1000 trees.

with white cloth

Tree forks at 10 feet
with two very large
upright ~~fall~~ branches.

Mrs John Boardman
is also an Iceman

Mrs Frank A. Iceman
Midwin Heiges

Camden
Mc

New photo &
article

Mrs Parrot
Brookton Farms
Abt Dr., Bringle
at Wellington
More photos!

1903

21

April 21 We were back in Boston, and
the North wind blew.

Mrs & Tabor & Walter Tabor came
on 10.15 train, we walked down
the track to Green Lodge, Swallows,
then by Marshalls Roadway
to Dedham Road & into the
fields just beyond & to the
Hemlocks: fine Tupels in the
fields. Lunched & then to the
Big Spring, searched in the
wet meadows below the Hemlocks
for Petasites but found none.
Cooked, called visitors in from
House by 3.12 from Dedham
Road station & they came up
to the house & staid till 5.15

1903

Hildegley Ct

Sept 30
Wednesday

Monday 29th

Left Boston 10 AM with H.W.H.
Ma & Sinclair & are West Burke
at 4.35. Will return in 10.

Leave W-W-C were at the lake
before six. Mr & Mrs Crane
of Somerville, the latter Mrs Richardson's
sister the only guest. To bed
early after walking a bit on
the moon lit piazza.

This morning have walked on
lake road. Ma & Sinclair to
Roaring Brook, Hattie & I to Echo
Rock. Took half a dozen photos
the day being exceptionally fine
after a cattle came right at us.

Quite a slide on Mt Kos-Kos
place in my last. I am
long to see the race. This forest is
not as beautiful as in June 1901 &
I am afraid is doomed to extinction.
PM we all went to the ridge in
pasture overlooking Little Pine - the
Bog while the others luxuriated in
the brilliant sunshine. I gathered
Lycopodium clavatum & *complana-*
tum: Specimens of the clavatum
have from four to five fructifying
pedicels per plant & of the
complanatum from four to

of the complanatum there was no regular fashion: monostachyous growing on plants with pedicels on habit: also a sterile branch in two instances was growing out of a fertile pedicel.

In complanatum a prolific apex to several fertile spike was new found, & these shoots had leaves, unlike either the sterile branches or the bracts of the fruiting spike. These growths varied in length, in ^{only} the case ~~only~~, fully as long as the spike. The appearance was very singular. We searched for the fragrant fungus but could not perceive any.

Oct 1 Day cloudy after yesterday's
Thursday brilliancy but hardly any rain
fell till after dark. Hattie
remained at home, but Ma &
Sinclair & I to Cold Brook path.
Careful search revealed
Vacc. vitis-idaea, but growing
in a very straggly way as if
attempting to live in spite of too
much sunshine & dryness of soil.
However it covered more area
than in June 1901. Found a
Mitella nuda in fresh young
flower & pressed it.
PM Sinclair & Ma & walked to
Westmore back, I started out
later & met them abt. a mile
beyond Roaring Brook. The road
has been mended at the Driveway
bough at Roaring Brook & an iron
rail put up on a good granite
wall on the lakeside. Found
Verbasco phlomoides & a reddish
Bryum wh' I shall send to Collins.
Thlaspius in full flower & *Equisetum*
scirpoideum in fruit.

Oct 2
Friday

Passed a quiet yesterday morning & then went along by the swaggle & with friend to the Ha spring & back to dinner by the new corduroy wood road thro' the wet woods below Little Pond Bog. In P.M. we all went to the Pasture Ridge & sat awhile in the sunshine & then "invited" mother over the spruce log fence & thro' the wood to the above Corduroy Road & so out on the highway home, thus giving mother a sight of the beautiful woods below the Little Pond Bog.

Oct 3. We all with Mr. Richardson Saturday partook of Sinclair's dinner at 12.30 at the end of Coal Brook path. I took a dozen snap shots of various portions of the scene. The cooking was excellent the day fine & the views of lake & cliff grand. After company home I went out on Mr. Foxon's Knoll & passed about & thought of the Hemlock Brush & finally gathered some various species. Came home at sun down

84

The leaf of the Fir Balsam has no evident petiole or pedicel, the round foot of the leaf leaves a distinct scar on the branch when removed, but nothing like petiole of the spruce leaf: and yet the petiole of the spruce leaf is no petiole at all as it does not belong to the leaf, but to the bundles of branch structure, being an evident apex of such bundle. The leaf of Fir Balsam is also softer & less sharp pointed than the spruce. When spruce leaf is pulled off it often breaks down & brings away part of this fibre bundle constituting its apparent petiole or stalk, a fir balsam leaf never breaks the surface of the branch, it simply leaves a scar.

The leaves of the white spruce are sharper pointed than the Red, & stand more square on the branch, hence feeling sharper, the red spruce leaves have an inward curve which makes them but much softer.

*when pressed in the hand, & this altho
the Red Spruce has a more square
& colorless bark than the
white Spruce.*

THE WINTER OF 1903-1904

The winter of 1903-1904 will long be remembered both for the amount of the large amount of snow which has fallen and for the low temperatures which have been experienced. It has proved to be a so-called "old-fashioned" winter and, certainly, it will tax the memory of the oldest inhabitant to recall a winter with a greater snowfall or a longer continued period of sleighing.

At the Blue Hill Observatory, during the three winter months of December, January and February, 83 inches of snow have fallen. During November there were 4 inches, and so far in March there have been 8 inches, making a total from Nov. 6 to date of 93 inches, or nearly 8 feet of snow. This is the largest amount ever recorded in any winter since the establishment of the observatory in 1855, and is more than twice the average depth of 45 inches the fall during January, alone, being 48 inches. Other snowy winters fall far behind 1903-1904 in snowfall, the next greatest depth recorded being that of 1893-1894 when, in the three winter months, 64 inches fell. 1886-1887 follows with a total of 62 inches, while 1902-1903 has a record of 61 inches. 1903-1904 also holds the record for the number of days on which snow fell, holding to its credit when one-tenth of an inch or more fell, 100 days with less than that amount. This winter is closely approached, however, by several other years in this respect, there being 26 days in 1880-1887, 23 in 1887-1888, and 24 each in 1892-1893, and in 1900-1901, when one-tenth of an inch of snow fell, the average number being 18.

During this winter snow has covered the ground for a longer consecutive period than ever before recorded in this vicinity, during a period of twenty years. In December, from the 2d to the 9th, the ground was covered with snow varying from 1 to 4 inches and good sleighing was enjoyed, while from Dec. 20 to date the ground has been constantly covered, the amount varying between 4 and 24 inches. The maximum depth of 24 inches was recorded on Jan. 9 and again on Feb. 15. At no time between Jan. 3 and Feb. 20 was the amount on the ground less than 13 inches.

Not alone in snowfall has this winter distinguished itself, however. While not the coldest on record yet it takes its stand among the coldest, being the most severe since 1875.

The cold weather began to evidence itself early in November and has continued with few interruptions until the present week. November as a whole was not an extraordinarily cold month, owing to a very warm period during the first week, but the latter part evened things up by being from 10 to 20 degrees colder than the average for that time of year. December proved to be the coldest December since 1890 and January turned out to be the coldest month of that name since 1893, while February, not to be outdone by its predecessors, kept up the good work by being the coldest February in nineteen years. The average temperature for the three winter months has been 20.8 degrees, and this has been exceeded only four times in fifty-five years, 1852, 1863, 1873 and 1875 being colder. 1868 was the coldest winter in this vicinity since weather records began to be kept in 1849, being about 2 degrees colder than this winter. January, 1857, is the coldest month on record, the average temperature being 12.7 degrees or 3.8 degrees colder than January, 1904.

During this winter the temperature has fallen below zero fourteen times, the average number being five times.

On Jan. 5 and 6 the minimum temperatures of 32 and 28 degrees below zero were recorded at the Valley Station of the ob-

servatory in Readville. These are the lowest temperatures on record in this vicinity.

There has been somewhat less than the normal amount of sunshine. The wind velocity has not been unusual and there were no very severe gales. The wind direction was chiefly from the west and northwest.

L. A. WELLS
Blue Hill Observatory, Milton, Mass.,
March 9, 1904.

1904

April 13 Sent Pres Boranard
2 shots Mill vt violets
2 " " " Potamogeton
to name.

April 14 Left Boston 10.10 with A. D. Hodges Jr. for Maryland. Walked by direct road 7 miles to Concord; cold raw day & instead of getting better we had two snow storms, in one of which near Walden Pond we ate our lunch at 1.30 standing in the fast falling damp snow. Home fr Concord 3.16 train. Salix tristis in early fl & lots of blue birds: the bright blue of the bird against the blue-black storm cloud made a picture.

April 15 Sent Oakes Ames my Mill Corallorrhiza the curious regular one & my sweetes & Botrychium to name.

April 15 Recd from A. S. Hitchcock Worleyton the Willoughby Agrorum sent him a few days ago.

1904

23 April Fine day. accepted Mr. Gerritson's invitation to join moss chapter in walk to Prospect Hill Waltham. Collier came fr. Providence at 9.19 we took 11.19 train in town & 12.24 to Riverview. about 25 ladies & 4 gentlemen, the above 3 & Mr Huntington from Amesbury whom I was glad to see. The ladies included Mrs. ~~Clark~~ Clapp of Dorchester, Mrs. Stevens the daughter in law of Brookline Miss of Framingham & others. Got the commoner mosses & Huntington finded *Hypnum chrysophyllum* which I then collected.

Mr. Huntington gave me *Campylostelium sayi* from Amesbury.

We got 5.27 train home & 6.27 to Readville.

May 3
Purgatory
Fayoris
met C.E. M. Walter Faxon in arr. of 9.15 train & by Minewa place to Green Lodge. Sent Wm home & walked thro' Nashua to Hemlock Grove & Big Spring where lunched. Day brilliantly warm. Then 80° & we enjoyed every moment. Brought home "Greens" of *Coelostoma palustre* & also Water-Cress from Spring brook. Saw Brown Thrasher the Fayoris heard others. Wm came for us Dedham Road at 3. W.F. went by Elec. C.E. & said Sodium

1904

Lexington & Melvilleton

10 May

with C. E. Faxon 9.09 train to Lex.
where Walter F. met us & we walked
towards & to Burleyton: had
our lunch by cold spring in
pasture meadow & then by
a wood road back to Revere St
Lexington going by Mr Simons
Ho. an old residence. The wood
road came out on the Bedford
Road just beyond Simons Ho
& close to Brook. We had
already passed a lone friable
leage where Red Earth or
Stone was once ground for
Red paint. We turned down
Revere St to cross Davis Hill
near the Golf Links: Fleeted
you over the hill within a
while & we did not get
what we were looking for i.e.
Silene Pennsylvania, but did
find *Ranunculus fascicularis*,
which I have not seen growing
at Lexington since 1863. We had
a delightful day after yesterday's
rain. C. E. & I dined at South
Station & home 7.15.

1904

31

15 May Sunday with Lucian & Mr Clayton to walk in Blue Hills; by Reed Road to notch in Hancock others took path six fence to the right & came out on the newly located road to run parallel to Crocker Farm. The trees being mostly cut for the whole length of the road but no surface graded & even touched. We walked along it to the Crocker line & so home by Somers, once out about Woods, saw fine *Isoplexis pubescens* & *Anemoneella*, both will be right in line of the new road. The day was cold with a misty East wind but good enough for walking.

17 May Tuesday Lexington & Burlington.

Took the 9.19 train but L.E. Faxon could not go: met Walter Faxon at Lexington station & we took same walk as on the 10th only in reverse direction. We had a view particularly to see the prostrate Juniper again, & we found the pasture after a little absence

95

wandering in the scrub oak of
Burleyton: after studying the
forms at home I expect it is
not *Sabicea procumbens* but
a fastigiate *Virginia*. We
found white *Viola pedata*,
white *Rhodora* & a few petals
Anemone nemorosa. Tony, a
little sleek Spaniel dog, that
often walks with Mr. Faxon
though not belonging to him,
went along too. We lunched
near same meadow & camp,
& after getting back to the
village strolled into the
ancient cemetery & then to
Mr. Faxon's house, where are
most of his Shakespeare Books.
Home by the 5.18 just as rain
began to fall.

1904 Willoughby Vermont.

23 May Left Boston 10 am with Kunkel & Ma. I.
arr West Burke 4:33 & as it had begun
to rain Bill Richardson got covered
carriage fr. stable & we rode up in that
with driver while Bill R brought trunks.
Mr Hall & his son Jr Lyndon here for
the fishing.

24 May with Ma. I to Picnic House & 1st slide.
I went to base of cliff & found *Saxifraga*
oppositiloba in fruit as in former years.
We came back thro' the woods & I
found 3 plants *Dicea palustris*,
also on cliff 1st slide a pure white
Primula mistassinica.
PM we went to Marl Pond & Bag:
Rhodora in bud & young flower.
fall. new last winters lumber road
to brook & bars at foot of Miss Cobb's
view pasture. fine *Streptopus roseus*
& *Burnia Pennsylv.* and very large
catkins of *Salix lucida* & on
roadsides by Big Boulder, small
stamineal pl. catkins of same (*lucida*)
New cut out Hemlock Log through
at the struggle. after coming
home I to the wood following
up the Barn Brook & found a
10 or 12 ft fall coming over
the ledge & several interesting

looking mosses on the wet rocks & old logs & branches. I staid exploring abt there for an hour or more, for where *Myurella Careyana* is found one expects other good things.

25 May

We walked thro Sugar Grove behind the house: I never saw before the mountain path changed into a heavy brook coming from that little spring we usually drink from before begining the ascent. PM I walked by short wood road - at West corner of Farm, but it soon ended & I followed a small brook into Cheney place & then hastened home on account of rain wh' continued all sun & all night.

26 May

We walked to Echo Rock & back via *Vitis* & *Sida* still in flower. *Chionanthus serpyllifolia* in full flower. Not over half a dozen *Orchis spectabilis*. Got a few mosses & a curiously large *Barbula fortis* like.

PM to the ridge back of Hotel & then down the road & into the Little Pemi

13

Friday
27 May

Bog where Amelanchier alnifolia &
plenty of Kalmia glauca in bloom.

A.M. to the Woods opp the house went
up Laundry Brook to its source, on
a large rock collected what may
be *Nickeria complanata*, also
some *Myurolla filacea*? & *Rhaconitum*
sudeticum? a fine moss place
is up there.

P.M. went down the road to the pasture
Brook near Gaff Links & found
more *Equisetum pratense* & have
sent some to Eaton. Also *Cypripedium*
pubescens & *Prunus Virginiana*;
searched the cedar swamp near
the pasture for any *Lecteria* but
saw none. A cold windy but
fine day for the woods.

Saturday. This AM walked to lake shore beyond
28 May Roaring Brook on the Lake Road.

About 100 yards this side Roaring
Brook found what appears to be
Antennaria plantaginifolia not
on my list. The Eucalyptas
seem to be in fine shape & I
shall try to find a set of 50 or more.
Searched for *Cypripedium arietinum*
but without success.

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We went down the road & beyond Sally's house entered Listera Swamp, after much search in debris of cedar & other fallen trees found Listera Spring, but it was a sad sight: the spring boxed in a wooden cage & in it a dead jumping field mouse & a dead frog, my heart was sad to look at such a sight & compare it with the same spot five years ago. I crossed the swamp being no longer a cedar swamp & came out at lower end of Sally pasture. Came home by same route as yesterday & dug up some *Equisetum pratense* in field, got also a baby *Ophioglossum vulgatum* but could not find another picked some of the rare root set in bloom in Philo's orchard near the old cellar (this not on my list) and on the highway found another chickie *Caulanthus* wh we omitted from my list because I had no specimen; prob I shall yet find all I listed on my cards & in blank books.

14

Sunday A very wonderfully fine summer day, &
4th May a grand drying day. After renewing
all my dried tramped to G. & J. S. Side
and part way up & after dinner
to the corner of Mrs. Richardson's farm
in the meadow where is quite an
Equisetum patch & then down in
woods by all the streams & brooks to
the Snugger drinking place & so home.

Monday walked in am to Salli's house & had
lunch with him abt oil Cedar & So
the further side of Saltfield & Brook
comes off a side ridge in Philbrook
saadure.

Then went along lake road to Echo
Creek & back: got several var.
of Magaria & also some others
to carry home, nothing new except
a rose evidently come off the
cliff with Rhus glabra & Carex
Scirpoidea but instead of being
smooth like blanda it has a good
supply of prickles, but the foliage
looks like plant.

1916
1908

St. Paul, Minn., to Robert Keel & a short
distance beyond. The climate is in
true flower, but no yellow larches in
the woods.

With Will R. down the road $1\frac{1}{2}$
miles to the Chever Place & while Will
fished the brook I explored the hill
& adjacent Cedar Swamp: got Carex
variolosa in the field & we found
Calyptro that Will R had noted
the other day - while he was
fishing with his ball of lead.
We also found two other *Calyptro*
& while on way to Scorpions Bag
found *Smilacina trifolia* in
plenty on one sphagnum cov.
moorland: this has not been
seen since Churchill collected
it somewhere near the X Bridge
& so far from the present
place. Then after considerable
juring of Mr. Hopkins who
lived on the farm now some
six years we found the old
old cedar swamp path, now
more a trail than a path, over
grown with low brush - most
trees down to a few feet
that lead to the river & to the

the 1st from 8 AM, & went up hill -
found it at last an opening some
distance from camp but before we
reach the brook opens into a grass
plot, ending at a pond that will
recognize as one we had passed
half an hour before. The *Lonicera*
longistylia was in bud; but
in the cool shade was not
at all apparent. We had a walk
at the giant basket bags you.
We were home just before
reaching the San Joaquin & saw a
dead tree, unfortunately by some
stones thrown out of the road side
& saw it was some *Stellaria* (Asticca)
& known to my Mollie by list.
Bill got some 13 trout in the
pond -

June 1 1904

Wednesday A rainy night & cloudy threatening day.
Took care of yesterday's plants
& worked from Scorpiones Bog.
Then went over to Cheyey
corner of Mrs Richardson's land
& got some of the Equisetum
there for study at home.
P.M. packing &c for our
return to Boston tomorrow.

Thursday We a/c to WR function by 11.30
2 June & after dinner at station to
7-E. Alders & home by the
2.43 express. Ha & Ma I re-
maind over night & came
home on 3.30 next day.

Found in 7-E. as far as
what appears *Rumex*
Patentia sent her from
New Jersey & spreading
now quite rapidly.

June 12. Nannie & I drove to Nelson Pond Farm, Mr. Sandford in charge & then thro Col. Russell's over Chickatawbut & out by the Brantree Wild road by edge of Reservation, Brantree Pond & thro Reservation to Killside & round So side Blue Hill to Canton ave home.
very cool fine June day.

June 15 Lexington & Burlington

By 9.09 train with C. E Faxon & Alfred Reeder to Lexington and Walter Faxon met us at train. We walked by road (Hancock & Adams St) to Burlington: on the brook by old sawmill handsome *Ranunculus acerophyllus* and *Callitrichia heterophylla*; at our lunch place by the cold spring in meadow got some of the carry gathered 3 weeks ago when young, & I think it may be *C. sieboldii* - not far along the road from this place we turn in to the left & by a cart path thro a wet pasture come to the Juniper scrub.

which Rehder decided was a
peculiar "Virginia" but its
fruit or "recurved peduncles"
must make one look for
other distinctive characters.
The strong odor of Sabicea var
procumbens was wanting in
this specimen so that may
be after all a noticeable
feature. We kept on thru
the scrub to the Pine wood or
mt pasture - had our lunch
there. A small & almost
capillary Carex varia &
Myosotis laxa. Then back
to W. Taylor's road over
Davis Hill; a peculiarly
long branched Carex Pennsylvanica
& another carex like
nudicata

I took along with me
as Rehder had never been in
Lexington we after a short
stay in W. T.'s library visited
the green & the Town Hall to
see Sandham's picture of
the Battle of Lexington.

1904 Brandon Vermont

July 12 Came here yesterday with H. M. A.
via Keene 11.15 to 5.10. Fine
met RR cut near Westminster
Mass to examine. Scenery not
so fine on the Rutland RR between
Chester & Holly Summit as I
had been led to suppose.

The marble cropping out in
pastures looked very new
& strange & Rutland & Proctor
were all devoted to the trade.
We are at the Brandon Inn
rooms \$9.50 & 5¹/2 very comfortable
walked after supper along
the main street beautifully
shaded with double rows of
maples. houses unpainted
very neat wide roofed
old-fashioned cottages the rule
with one very steep pitch narrow
roofed cottage. Every night
very warm & still we remarked
the absence of no guitars out doors,
tho all our rooms were well
screened.

13 July.

Members of the Ut. Bot Club began to gather at the Brandon Inn at noon, & Pres. Brainerd & Prof Morse of Barleyton were in the first party. Carriages were got ready after dinner & I was in Brainerd's car drove to Silver Lake, walking most of the way in the ravine where runs a beautiful brook - where I found *Asplenium* *angustifolium*. I had seen the notice of his Hunterian death in a London paper & had telegraphed Mrs. Hunter to I could think of little else all the afternoon. A heavy thunderstorm after we reached the Silver Lake Hotel. Prof Perkins present also Mrs. Jerry & Suite College - Ann Dondorf. At the evening meeting I called the attention of the Club to the Millcreek P. O. matter & a committee was appointed pres. Brainerd, Prof Morse & Mr. Davenport. The Hotel at Silver Lake kept by a Methodist - is not as good

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Dr. H. H. Helfert Pittsford Oct. First photo of Club
+ gave me some beautiful series of several
photographs.

as Melville by the people there
arrival of 30 or more people may
have tried the lawless resources.
However he does not sell liquor
& cigars + no doubt has a very
quiet household. The wood
drive is remarkably fine & the
place may be a little Godoubt
keeper.

This morning while the others went
to Woodlawn Mt + Lake Geneva
I drove home with a Mr. Briggs,
a young man who was returning
to Brandon: arrived at 10 o'clock
found telegram from Berrett But-
tinson that the funeral was at
Hanover today at 11 + the burial
at Hadley tomorrow at 3; the
train connections are so very
bad that I reluctantly gave
up going to Hadley.

Then walked with Hattie + Mad
to the Seewell. but could see
nothing to be considered worthy
fruit - had to take the
ice part of it on trust having
no thermometer to take its
thermometer by the back entrance.
a fine afternoon with cold breeze

1904

July 14. We drove to Lake Dunnmore had
luncheon at the Mt. Spring Ho.
by side of the lake. Went out
not by the regular stage road
but over the mt. road with
views of the Adirondacks & on
coming back over a piece of
mt. road near the lake whi-
led us for half a mile or so
along the shore of the lake at
the upper end & then rejoined
our morning mountain road.
I prefer Silver Lake as a bot-
anical ground; the day was
hot at Dunnmore lake side, tho'
a cooler breeze blowing on the
ridges. Found a 5 ft Malva
many-branched, fl. the ground
that hardly matches Malva
verticillata description.
Lake Dunnmore not as pretty as
I expected — not to be compared
with Willoughby. The various
mt. limestone cliffs on the
roads here suggest interesting
plants. We reached home
at 4.15 & have rather
tried with the day.

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July 15 A.M. went to small ledge hill
back of the Episcopal church, got
fine aspl. *ebenum* & a carex I have
not named.

PM We all drove short trips on roads
abt the village & to the Marble
Quarry where the foreman explained
the methods of cutting & splitting the
marble: they are now down
abt 60 ft & the lower marble is
finer whiter. The blocks are
about 6 ft x 4 ft. On rocky
ledge got *Arabis* & in a damp
place *Pycnanthemum muticum*.
Day rather warm & cloudy but
the expected rain did not come.

July 16. We drove to Silver Lake betw. 9.15 &
11.15. The lake lies in the town of
Leicester while Durmore is in
Salisbury. Staid there to dinner
& got a few mosses. On the
road home & in the wood & ravine
got *Aster puniceus* in full
flower, even an old fl. spec. it
might be called. At Forestdale
the village near the fine roadside
shrub & beautifully situated little

church in the wood we visited
the wood working establishment
of Newton Thompson Mfg Co
Brandon vt
Wood Turners
A. S. Newton Pres.
C. K. Bump Vice P & Manager
L. J. Fortier Treas Dec

They make all kinds of turned
boxes, toys & brackets &
also small locked boxes.
I bought a dozen long boxes
to hold styl. pens for 15 cents.

Sunday at home in AM Day quite warm.
July 17. PM we drove the Sugar Hollow
road, going out on the Rutland
Turnpike to a mile fr. Pittsford
& then turning off East by some
good pine wood over sandy road
& then North a very pretty drive
down to Brandon.

1904

Monday. Heavy rain & thunder in the night &
July 18 quite warm day following.

at home in AM but in PM
I took 2.40 train for Middlebury.
very wide plains betw. Leicester
junction, thro' Salisbury almost
to Middlebury. Drove to Mrs.
Brainerd's house $\frac{3}{4}$ mile from
station on a pretty knoll.
He sparingly had gone to camp
on Lake Champlain. Then
drove thro' village to College
Buildings just beyond the
grounds. The new Catholic
church built close to College
grounds has a fine tower.
Back to Bookstore & bought 10
vols. Chamber Muscally for Ruth
& then walked to station
took 5.02 to Brandon: very
heavy rain en route but
ground dry at Brandon.

Tuesday
July 19 From Brandon 10.15 am to
Boston at 5.45 Day hot
& bright. Fine views of Mount-
ain & I noted small Hotel
was station at East Wallingford
vt; this being the town where I
have planned to go before long.

108 Melton

Sat. July 30. 1904. Drove to Massapoag Pond
& by Mountain St Sharon &
Bay Street home. Phlox
paniculata on roadside
by old cellar near Friend
Drakes house with its curious
1846 sign abt. shooting on
his farm. Also Aster
spectabilis just in flower
on Bay St and Nepeta
Cataria which I have
called rare hereabouts at
two old farm houses & in
road near them. The wind
blowing across Massapoag
reminded NWK of Under mere.
The Potter place is unoccupied
for sale.

14 Aug Sunday. Drove to Norfolk Down station
+ got some Cassia chamaecarpa L

W
40
B
M
H
O

Wayside Inn

15 Aug 1904. With Chas E. & Walter Faxon
to the Wayside Inn at Sudbury.
By 10.10 train to " station at
10.50 walked along the road
intending to go to Nobscot Hill.
but when we reached the Inn
everything looked so inviting we
ordered dinner & remained
from 12 to 2.45. We measured
the big *Quercus alba* & also
the somewhat larger *Q. velutina*,
and noticed the large *Taxodium*
Americanum: coll. a leeked at
root of *Quercus velutina* alba.
Did not collect much: a fine
Aster patens & a flowering
potatoe wh. some one had
thrown down by the roadside &
it had rooted & flowered. We
walked to South Sudbury station
to take 4.12 train home.

Lost the cord with my measurement of the trees
Evening telephoned to Emile T.
Williams who reached home
yesterday afternoon fr. Europe.

Walter
Faxon's
Dec 8, 1891
note of
the two
oaks

Q. alba
18' 10 1/2" circ at 3 ft
16.1" " 5"
15.7" " 6"

Q. tinctoria
17' 3 1/2" circ at 3 ft
16' 9 1/2" " 4 1/2"
16' 8 1/2" " 6 "

1904 Orleans: Cape Cod.

Tuesday By 7.38 train arr at Orleans
Aug 23. at 10.40: Mr S. W. Gould met
me with Team & we drove over to
Rock Creek Harbor & saw the
now small number of fishermen,
men getting quahogs & clams.
Mrs & Mrs Gould are boarding
with Mr & Mrs Howard Crosby
& I was made quite comfortable.
After dinner with the Gourds
drove over to Fosset & East
Orleans & to the 7 acre piece
pland Mr Gould owns: got
several plants & he took me
especially to see a Heracleum
by the roadside. The day was
very fine clear & cool.
At supper time we walked
to a bit of marsh just beyond
the Eastham line to see if
any shore birds had come;
here was Malva Moschata
as bright as any Red Iris.
In the garden Marumbium, the
first I ever gathered.

Wednesday Aug 24.

Mr. Gould & I drove by the Breyg Brook
into the Eastham moors or woods,
near Dr. Maurice Richardson's
pond where we could look
across at his house & duck
blind from the artificially
cut brook that flows from
pond to Massachusetts Bay,
out I suppose on the Kerring,
was this place was the first
Corona + also young
Polygonella articulata which
puzzled me for some time.
Thence to the Camp meeting ground
near which was *Artemesia*
absinthium in a door yard;
thence across the RR by a wood
road where was fine *Tephrozia*
Morotopha hypoleuca, to the
nause lights, three low light
houses built on the abrupt
edge of a sixty foot cliff +
which have been moved
back to get beyond the reach
of the waves, a life line from
the edge of the grassy bank
to the beach below, a deep
dark color to the level -

moving waves reminded me
that not always are August
skies & weather to be found here.
The view was grandly beautiful.
Hence we drove through moss
across to a glacial boulder
a single stone abt 300 ft
in diameter & sixteen ft
high & nothing like it for
miles or indeed until you
reach the big stone boulder
at Rock Harbor, which we
saw yesterday some distance
off from the sea shore. Hence
we came thro the village of Eastham
Centre always by small & dug
ponds & so however called
on Mr & Mrs C. B. Davenport near
the Crosby.

After dinner we played Croquet
till time to go to the 3.26 train
which landed me in B at 6.22.

Monday
29 Aug
South Wellfleet.
With Sinclair & Mad to Cape; he to
Cape Cod, we for a noon lunch at
sea shore one mile fr. So. Wellfleet.
many Mosquitoes & very hot dry.
large branched Salicornia herbacea.
met Miss Gould on train & she sent 15
shore birds to N.W.K. Home on 6.45 train
C. E. Farren here to dinner.

1904

Massapoag Pond

1133

Sept 2 C. E. Faxon author at 70 New York
 Friday ~~met~~ horse & drove to Massapoag
 lake & house by Mountain St
 Bay St. lunched at farm
 on Mt. St near North Easton line
 on hillside near cranberry
 meadow. met Mr. Drake
 on Mt. St & his father put up
 the sign on the old Drake
 House which is as follows.
 "Take Notice. Whereas I have
 sold to several gentlemen of
 Boston the right to hunt in
 my grounds. That entry
 on these premises by any
 other person for the purpose
 of hunting with dogs or guns
 are strictly forbidden.

Friend Drake
 Sharon May 27th 1846."

He told us that Mr. Horace Targent
 of Beacon St & Daniel Webster
 nailed up the sign, he
 did not say whether it was
 their composition.

He was himself an original
 having been a soldier for
 some years in the civil war,

appears to have settled into a
state of quiet in his declining
years. He journeyed to Boston
last week (probably to the
G. A. encampment), not
having been there before for
twenty five years. He stays
in the old house & takes his
meals in his daughter's house
half a mile away. At the
pond opp Plain St in Bay St
we found plenty of *Coccocles*
rosea but did not as I intended
explore all around the pond.
Aster spectabilis is a rather
common roadside plant in
the woodland parts of Bay St.
Home at 5 o'clock & C. E. &
dined here & we listened to
the colony of *Katy Did*s at
our front gate.

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Hilloughby Vermont

Sept 7, 1904 Wednesday.

Left Boston 10 AM yesterday with H.W. & Ma. I. for West Burke 4.50. I drove the pair of grey's up here as Charles wanted to take up other passengers trunks. Miss Carby of Stoneham Mass niece of Mrs Richardson came up with us. Day evening very clear & bright. And the fine weather continued all today. Walked in AM with ma & almost to Roaring Brook: road full of juncoes & shadows very beautiful. PM we all went in Capt Overells boat the keyway down around the lake.

Deepest place 27 $\frac{1}{2}$ feet just about N. W. of the lower part of the first or say two & half miles fr south end of lake

Every cloudy up, but warmer than the cold clear last evening

1904

Thursday
Sept 8

Rain fell 11 o'clock after which I went in field opp. the house & found large sterile *Equisetum pratense*. In pm on the Cold Brook path hoping to find *Lycopodium complanatum* var. *Wibbii* but did not gather much. *Lycopodium annotinum* branched to 1/4 times & quite cup shaped in its growth. also *Carex retroflexa* Schleicher & fine *Aster pumilus* Lecidulus. Coming back on the roadside opp. Cheney, lower gate into the Spruce woods found *Lycopodium complanatum*, of a very diff form from Fernando's *flabelliforme* & I picked enough for a dozen sheets, only one however with fruit. Pressed it before supper. Every wrote to Hall at Glacier British Columbia.

1904

112
3

Friday
left 7.

went to Cheney Woods again looking for Wibbeli but did not find it.
a curious *Mentha* in the wet place near Cheney Boat House
large fine *Carex retroflexa* again
it is the only *Carex* that seems to
flourish in September. After
dinner to the pasture knoll
found the Wibbeli but old &
yellow looking as if something
had made it Wibbeli, i.e.
not as fine & good as real
complanatum. all the single
spiked plants looked sickly.

1904

Sept 10 Am along the ridge opp the
Saturday house Lots lots plenty
of pleasure in the woods; it
looks now the most common
Spiraeaum up here. Varying
forms of Asplenium adiantoides
fine Asplenium Thelypteroides.
In brush pasture Lygodium
clavatum monostachyon
which seems common enough.

2 plants of Equisetum in Mrs R's
potato patch: I brought
in for the garden like nothing
else seen.

Sept 11 Sunday. A hazy doubtful morning slowly
cleared off into a day of wonderful
beauty. I walked up the Lake
Road to a point abt a mile
beyond Roaring Brook: & at a
little cold brook was there
could not resist gathering
a few curious mosses. Searched
carefully for Duck-tail, at the
place where found last fall
but did not see one. The
view across the lake with its
misty white caps was very
beautiful. On the way

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home over took Miss Carbée & Mad
who had walked to Roaring Brook.
late in the afternoon with Mad
to sale the sheep in the Gaspé
pasture.

Sept 12 Monday Am walked to Green Tunnel with
Hattie calling at Katie McTolland's
at the Bishop Farm. Gathered
some of the Crataegus fruit
at the old abandoned farm &
sent it by mail to Prof Vaughan.
PM walked to Echo Rock.

Sept 13 Tuesday a very beautiful day.
Am to the sugar wood & ridge
in pasture. Found Episetum in
pratense with even the branches
having ridges densely set with
speculae & the branches have
so far as I have observed been
always smooth.

PM at home & walked with
Hattie to the Cherry Cottage
enjoyed the delightful air, sky
& view. Found in Am remarkable
large Geaster with thick leather
& divisions like cup, very strong &
perceptible a curious puff hole

1²⁰ 1904.

Sept 14 Wed. My W Payou & Mr. A. O. Huntly
went this morning at 8 intending
to visit the St. Johnsbury Fair
to-day. We walked up
the pasture path opp the house
& so over to the once extant
Stone grove, now no longer
there but an overgrown mass
of young bushes & waste. Then
down by ridge & strings &
brooks opp the house to
Cheney fence & then down to
road.

Raining in P.M. & I read in Fontenelle,
La Pluralité des Mondes.

very good *Carex sylvatica* in fine
fruit near Cheney's fence beside
a big rock on roadside and
a clump of very vigorous
Carex retroflexa on the lake
shore, which seems to have
escaped. Mr. Cheney's man
devouring scythe: the roundle
& bay beach are terribly laid
bare by the scythe.

125 B

Sept 15 A Post office inspector spent last night here & I was glad to give him my views on the abolishment of the Willoughby P. O.

Strained drenchingly in the night & fairly so early today but walked dry to Echo Rock between 10.30 - 12.30. Got a few *Equisetum* on the lake shore beach, but did not find watercress with branches roughly spiculate. *Rosa blanda* by roadside has small ovoid fruit with sepals reflexed persistent.

PM Walked to South view & then in pasture & by the pool or bog hole near the Elms.

Carex retrorsa in fine shape also normal plants of *Mentha Canadensis*. What I found on Cold Brook path were simply specimens grown in shade & so loose & large. Got *Equisetum arvense* also some with the little tubers on rootstock.

Some hypnoid moss spreading over the flat areas of mud & a *Veronica* I also brought home & many Big Boulders on roadside a good spec. of *Equisetum sylvaticum*.

1122
1904

Sept 16 Friday

Mr Barnum Yale 79 & in the
Secretary's office at New Haven
came last evening & this am
he & I & Miss Thomas of Los Angeles
went to the top of Mt & North
Overlook: fine day with rolling
white clouds in sky. Did not
collect a plant.

On with Abbott & met Sothe
South View & home through
the pasture road.

Evening Mr Miter came by the
late train from St Johnsbury,
having been in Lunenburg.

Sept 17 Saturday

Mr Miter was showing me
photos of White Mt seen
in am & we did not get
out till near noon when
we went out down the
path towards lake a very
short distance.

After dinner we went to First
Slide & found many things to
interest us. *Parnassia* in
bloom & *Saxifraga aizoides*,
Lobelia Kalmii rather
Polyphyllum: I collected
some *Equisetum* today

arvense or its var nemorum on the rich earth by the side of upper part of slide. Also *Amar. viridis* & fruit. We crossed the upper wall & climbed over the ridge to next slide & found more *Saxifraga oppositifolia* here, so I thought it a good place to go up it next morning. I collected also a *Panicum* & two other grasses & we came back down the slope at sunset.

Friday We arranged & tabulated yesterday Sept 18 things till nearly noon & then took Ridge & round by the end (outlet) of Sule Pond where I showed Mites the *Salix californica* of which he took specimens. A Blue Heron arose from the Pond; after dinner we walked to the Cutten road & after much search in the much-cleaned wet fields found one stunted bush of *Rhamnus alnifolia* which I had promised to show Mr. Cutten. Also in dry place on the

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roadside & under bushes &
trees found quite a lot of the
true (I think) *Equisetum pratense*:
very conspicuous now by its
light color and the very
horizontal branches. It looks
quite unlike the arvense &
its variety. We walked about
a mile on the Sutton road
getting home before the thunder
shower which closed this very
warm day. On arrival
learned that an eagle had
been seen flying rather near
the house, which confirms
my rather doubtful impression
that the bird ~~was~~ ^{is} ~~to be~~
for an eagle the other day
when we had no opera glasses
was really that noble bird.
Caetra palustris in full flower
on the Sutton road one fine
specimen. and a doubtful
Ericthonium.

1904

Across will take the Mountain
to the left is Bear Mountain.
middle one Owl's Head.
little one at right is perhaps
little Orford.

Orford itself has a perfectly
bare summit, dome shaped.
Fide W. J. Miter.

after going up the Mt on Monday
pm Sept 19. Mr Miter (who
went into the rocky woods
beyond North Outlook &
saw Orford well) says the
right hand mountain is
Elephantis, which indeed
others have said: he
showed me the whole of
Elephantis from the mountain
& what we see from the
Hotel is only ~~one~~ the Head
of the Amph abt.

Morning we went to swamp below
house & Marl Pond Bay for
Rhodora.

Sept 20

Home on the 4.08 with parlor car
from Newport.

attended Florence Barrows reading
on Sept 21 at 3.30 P.M.

1904

Wellesleyby Vermont

Sept 22^d with HKK mas Earth & her children
arr West Burke 4.35. Mrs Richardson
not having recd our telegram we
came in Stable Surrey - very
fine but cold night.

Sept 23 The 29° this morning & a very
heavy frost. On the water in the
boats at the Boat House was
ice one third of an inch thick.
morning we all HKK included
walked to Echo Rock & in the
afternoon all took the Long
Pond Drive. Telegram from
Sinclair that Hal will reach
Boston next Tuesday 7.30 am

Sept 24 Begun to rain last evening and has
continued practically all day, so
that we have been forced to take
our tramps on the piazza (70 yards or
rather my paces) Read Coran Daylis
story the Cloomber Mystery, dealing
in pseudo-Indian philosophy, as to
revenge & delay of punishment for
a bad action.

Sept 25 Still cloudy & misty in morning.
Sunday I walked to Salls house before
breakfast. had my John Aitken
little telescope of many years ago &

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it gives better field & definition than any glass I have ever seen 12: have not yet tried it against my Meissch glass. Saw Field Song Sparrows, Juncos, Chickadees & Phobes.

Rain till 11.30; then George & I went to Cold Brook. after dinner (with Ma &) & the children to the ledge & then Cold Brook; the children much enjoyed the path with its damp mossy banks. Saw with my glass the ^{one} ~~first~~ lost from passing flock still on the 1st slide below ledge where Witter & I saw him 2. - 17th. Saw large Hawk flying near ledges but could not well mark him with glass. Afternoon constantly threatening rain.

Sept 20 As we expected Hal to arrive from Monday Japan at 7.30 AM Tuesday we all took the 9.08 train & arr in Boston 5.10: a very long train owing to slide at Willey Notch taking away train service; the Saturday eve. rain washed out several hundred feet leaving RR track in air. Day for us cloudy & rain in Boston. Brought home *Salix Balsamifera* shoot to plant.

128 1904

Nov 2. To Ipswich with Walter Taxon:
to Great Neck & Eagle Hill
back into the town to see
the old cemetery: oldest
stone seen 1690.
On rocks in center of lawn
Sedum acre L.
On shore near long bay
river (tidal) a *Pennex*
rather peculiar but
prob. *oblongifolius*.
On meadows little way beyond
Poterium Canadense +
Brassica nigra.
Lunched on piazza of empty
house in warm sunshine
near Eagle Hill. Saw
no Lapland Longspur, as
perhaps they had all gone
by in October: but did
see the Arctic snowbunting
quite tame, but not in large
flock. W. T. said birds
were very scarce. We went
down by 10.10 train alone
3.50. Weather at 7 AM 30°
+ a heavy white frost
fell. by a beautiful day.

16 Nov 1904

Walter Faxon

came out & we walked over
the new Reservation Road fr.
Harvard St to Hillside St.
Found good Pottie
Home at 1.15 & Frances joined
with us as Hattie was in
town. P.M. with cigars
chatted abt books & Shakespeare
then he looked over
my library.

12 March 1905

area, having a paper devoted to the in-
terests of all sections. To provide
such a paper, not to gain profit, has
been the sole aim of the committee.

The success of the undertaking
seems assured, but it will be greater if
more people will subscribe for the pa-
per, and contribute to its columns.
This, therefore, the committee urge
everyone to do.

For the Committee, A. H. WARD.

Members of The Milton Record com-
mittee—Andrew H. Ward, chairman;
Rev. T. I. Reese, H. C. Gallagher, Wm.
B. Thurber, James H. Perkins, John
Swift, Arthur Tucker, N. T. Kidder,
Maurice Duffy, A. J. Jacoby, Charles S.
Pierce.

March 9, 1905.

THE COLD WINTER.

The records of the Blue Hill observa-
tory show that December averaged
about 61.2 degrees colder than nor-

mal, January about 2 degrees colder
than normal, and February about 5
degrees colder than normal. The total
depth of the snowfall during the win-
ter was about five feet. But, notwithstanding
the severity of the winter it
did not equal the one of last year,
which was about one degree colder
and gave a total snowfall of about
seven feet.

In order to find two consecutive
winters as cold as the past two win-
ters it is necessary to go back as far
as 1855 to 1857, when the records of
Mr. Breck show that there were three
successive cold winters. January,
1857, was particularly cold, several de-
grees colder than any month since
then. Other cold winters occurred in
1852, 1865, 1868, 1873, 1875, 1881 and
1893.

The warmest winter during the
past 60 years was that of 1890, which
averaged about 11 degrees warmer
than the past winter—a difference
equal to a change of latitude from Bos-
ton to Washington.

H. H. TAYLOR,
Melenologist.

see after Apr 22, 1905 for our trip to
Wellington in Jan 1905

1905

March 18th

Put away in Herb. the last
numbers of 347 plants,
given me by Fernand
Plast summer collecting
at Gaspé

18 Mch 1905 At 6.20 PM on corner of
Commonwealth Ave & Dartmouth St.
Boston saw a bat flying.

26 Mch Sinclair while canoing on the
Reposset saw Swallow Blackbird
& many black duck; the latter
at mouth of Pookapog Brook.

1905 Mar 25. After a rainy morning I walked to path in B&R back of the Moleatt place but did not go to the Crossman Pines on top of the ice on the little hill where the cedars grow before you come to the bog bridge. On root of a tree in wet land back of the Floyd's entrance gate to B&R saw a flat odd looking moss which looked strange to me. It proves to be Cyphobrothecium cladophyllum, & this I have it from Willoughby vt and from West Lebanon NH have not gathered it in Mass. under the compound microscope its more than 12 articulations to the teeth are very evident.

also

Hydnellum riparium, L.
" reptile - Rich.

1905 Mar 30 Thursday
very fine day this 72° at 2 PM
walked down in the lower
part of Mr Hemenway's land,
going down Bush Hill Road &
then along the Reser. fence.
Got fine *Hypnum revolutum*,
also a sterile moss on the
Chamaecyparis trees & a few
Thuidium & other hypnoids.
also on decayed log *Dicranum*
flagellare Hedw.; from its erect
capsule, very smooth leaf,
the flagellae are wanting.
The *Hypnum* from rotten log in
boggy pool that I called
scutatum is I think
Haldanianum with rather
shorter & more arcuate capsules.

April 1, 1905. Walked in the hardwood land E. of Elm St on Mr. Hemmerman estate & collected mosses mostly at the roots of oak trees.

examined at home specimens

Brachythecium laetum Brid.

This moss growing in mats of a yellowish green color at and on roots of trees in the dry woods. upright branches abt $\frac{1}{2}$ to $\frac{3}{4}$ inch long: leaves straight - & erect spreading: plainly lanceolate: nerveed half or more way: rather plicate. Capsule with acute lid, fatter & usually constricted under the "oblique orifice". cilia plainly strongly radulate or even apiculate - muscus percurrentia abruptly long acuminate as in Tab 115 of Sull Obs.

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April 9, 1905 Sunday: walked with Mr
for an hour in BKR & behind
the Hobcott & Hoad's places.
Got Torchontown tortoise
by roadside here & fine
Dicranella heteromalla.

April 14. Fine warm day. At 10.30
walked down the road & into
the corner of the Hem land
& across the lower avenues &
out on the highway Elm St
near the farm buildings & then
by Fox Sparrow path to Green
Lodge Road & thence to the
Club: where I had a cup of
tea & bread & butter & then
to the pine woods & cold
brook south Easterly of the
Club house, wh. I named
Ash heap Brook: it was
remarkably cold & I filled
my bag with various mosses:
found also some *Eutodon*
cladonotigenus, when I find

In two or three years ago, came home also by Fox Sparrow path thru th., reaching the house at five o'clock.

Purgatory.

18 April. C.E. & W. Faxon came on 9.15 train down to round to Endicott station left us at path on Everett St & we came thro Purgatory going down all the paths finally turning at angle of roadway opp. Washburn's Roadway near Dedham Road. Then we came along to Peamount & went in fruitless search of *Sanguinaria* at the Pasture walls here & then down Sam'l Cabot's lane to the field at the Neponset Meadows & back to highway, then by Green Lodge & Fox Sparrow path to Nemurian farm entrance & by Elm St home. The day was cool & windy. The abt 40°, cloudy & sunny by turns. Did not collect a thing, but *Caetra palustris* was in flower by the Great Spring in Purgatory. The gentlemen did here & home by the 8. 18.

This page for April 14th mosses

Plagiothecium latebricola B.S. at wet base of
old big willow on Green Lodge Road, with a
very erect, light-colored capsule.

Euryhynchium strigosum B.S., on the ground
on Fox Sparrow path, looks very
plumose & soft.

Dicranum flagellare Hedw. (with a few *Plagiodia*)
near Ash Heap Brook.

Brachythecium plenissimum Swartz, on the round
wet stone in Ash Heap Brook.

Pylaisia velutina B.S. on a small flat stone
near Ash Heap Brook.

1905

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21 April walked from 9.30 to 12.30 down by
the Nip. River River fence to rabbit
what I have called Rhynchostegium
pool, tho' I have oft convinced
myself that the moss so plenty
here on rotten wood & sticks is
Hypnum Haldanianum.

Filled my Box with other mosses
& brought home Pl. sp. of *Catua*
palustris, *Anomone nemorosa*
— *Chrysosplenium*. Day sunny
& dry like. Flrs 70 at 1000 ft.
Sphagnum cymbifolium Erob in Herb.
Hypnum Kneiffii B.L = *H. aduncum*
var *polycarpon* for this spec in Herb.

1905

April 22. To Salem with Meredith, called on Mrs. M.
Macomur his daughter. Walked
with them to the Willows & got
Lestes obscurus Nedw
Thelia herkella
& *Polygonia polyantha* perhaps
tho' it may be some *Hypnum*.
Came back 4.43 train having
gone down on the 2.15.

Addendum:
1905 Jan 14 to West Burke at 8 will with
Mrs. L. Her O at house.
Ruins of the Hotel Jr. fire on
Nov 15. 1904.

Jan 15 on snow shoes to have seen
the Bee Cutting & through the
Cherry place. Deer trails in
the snow & probably Gyp the
little dog saw them, at
least he was very much
excited & timid. PM across
little pond on the snow
surface & thro' the pasture
Her O° or about 8° all day
no person came to the house
or went by today.
This morning many Red Polls
flying abt the house and

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coming down in flocks to a
small urine spot, (probably
Gyps - a female dog) near the
house and pecking away the
discolored snow quite industriously
Home, leaving the house at
12.30 & arr. Mt. Burke at 1.15

Jan 16

140
1905

April 26 Fine day & warm at noon. ~~Wm~~
drove me to near Peconic St at
10 AM & I went back thro'
rocky woods to where the Brook
crosses Mr. S. Cabot's woodroad
to the reservoir & then followed
the brook up to the cold spring
in Bloodroot meadow. Sat
down there had my lunch
between 12 & 12.45. Then across
the wet meadows to Cemetery
Brook in its lower part, but
not down to the little pond I
saw over the wall & then up
the South Front arm of the
brook to a rocky spring hole
near the hillside covered with
timber & over that to Sidham
Road & on other side of that to
the high ride overlooking the dug
out pits & kept along the edge
of this place for quite a bit.
~~Wm~~ came to the corner of Elm St
at 3 o'clock & we drove down first
woodroad wh' brought us out to
the deep rock cut on the PRR
where Mr. Taylor used to get Bryum
pseudo Iniquitum. I went
there but found only very

10

poor road too young to name. Then we came back took another west road wh finally led us by a wooden side'd bridge across the R.R. & in the field beyond we found abt 4 offer coming across R.R. took first right hand road toward Canton junction & taking the highway & followed Washington St Canton all the way home at 4:30. a few drops of rain falling at intervals all the afternoon. Saw in bloom blue violets, Spice bush, Potentilla, Antennaria, Lycopodium complanatum, Carex prob Pennsylvania, Wallich perhaps tristis. filled my Box with mosses.

Polytrichum piliferum

Hypnum revolutum (very common)

Catbarnea angustata.

Antennaria rostrata

~~*Brachythecium acutum*~~ ~~*Salicinum*~~ but unlike anything I have; appearing more like a *Plagiothecium* as it has complanate leaves.

Brachythecium rivulare prob! a water form on branches on wet stones by cold spring, sterile, very lax areolation looking like *Bryum* but brown of river area.

142
Hypnum cupressiforme
Aulacomnium palustre &
Hypnum revolutum closely clinging
to wet vertical face of rock in
brook where it must have
been submerged all winter.
Dicranum fulvum:

Lucobryum glaucum fruiting while
the top of leaf is covered with a
Hypnum cupressiforme form so
that I thought in the field that
a Rhynchostegium growing on
a bed of *lucobryum*.
Dicranum montanum?

" *viride*! on old log
near the Cabot roadway before
getting to the Brook.

Fontinalis Dalecarlica with
caddis cases inhabited by the worm
& simulating the capsule of
Fontinalis most correctly,
showing above the smooth edges
of the incised leaf cut off and
at base of the operculum two
tufts of hair, one on each side
of the case. The creature dips out
of this case in the form of a
black hard shelled caddis bug.

1905

May 2. With Chas E Faxon on 9.09 train to Lexington & with Walter T. walked to Lincoln, reaching the town by road passing entrance to new Cemetery: along that road before reaching the Cemetery is a half mile or more of good moss collecting woods bank. found *Aulacomnium heterostichum* & *Bartramia pomiformis*

Hypnum Schreberi
" *triguetrum*.

Lincksbury woodpile at corner of wood road.

From the beautiful village on a hill of Lincoln we went to Sandy Pond Shore for a short stay & one or two mosses. *Plagio. latericola*.

Hypnum revarium & *triguetrum*
Scleropodium paleaceum.

Liskena gracilissima in my Herb.

Dicranum montanum

Hyp. Schreberi with very light col. stems.

Then walked to Baker Bridge station & took 4.10 train back. W.F. had to leave us on RR & go back for missing bag wh. he found in the Baker Bridge station.

Very fine day at last
the weather is very
warm & dry

May 4. By 10 o'clock train Bod via Famy Lam
with Walter Raxon & Ostram Bangs
to Clinton where Mr John E Flanagan
met us with magouette & we
drove to his Ornithological Museum
in Lancaster & after admiring it
for an hour to the Great Elm
in the valley meadow, which
is indeed a wonder. Then
to his house to lunch meeting
his wife & two daughters. He has
a beautiful library of Bird
Books & has Audubon's
original drawings of the Hermit
Thrush. Then we walked all
the grounds & saw the bulls &
the wild garden, which deer
had trampled upon last
night & Mr J. drove us to
the 3.36 train via Mass
Central at Clinton & we
came by the magnificent
dam being built for the
new water service & home
to Boston at 4.56.

1905

May 8.

With Dalton (one of the men), by the 8.29
train to Highland Lake in the town of
Norfolk: arr there 8.55. walked back
by a short street & then West St toward
the Big Swamp: near the corner of
West & Cedar Sts on large elm tree
mosses, particularly a Mimosa growing
some 8 or 10 feet fr. ground: I reached
it by standing on the wall: a Tree
Swallow flew out of hole on street
side of tree up say 15 ft. We turned
into 1st lane or back on N. side
of Cedar St. But this well used
wood road ended at two
houses, the larger occupied &
probably owned by a deaf
old Canadian whose hired man
with whom we talked before
his "boss" came forth the house
was an intelligent good looking
Mass. young man: it seemed
from the position ought to
have been revised: when past
the houses we started out
places officially came out
again on Cedar St & walked
thru on all along to State Road
when we cut across corner to a
one cold brook small but
cold

connects the swamps on the South side of Cedar St. I got a very sharp pointed Sphagnum from pool on North side & water hyacinth & stones in the brook. Along the State road with few attempts to enter swamps.

On Cedar St side not far from the two houses mentioned saw one spec. *Taxus Canadensis*, & collected *Louisea ciliata* in the dry woods. near the State Road in swamp were *Coptis trifolia* in flower & *Chiogea hispidula*.

On dry ground North side swamp *Oryzopsis asperifolia*

We landed at Pochick Spring a new place for me & taking the road that led from it came at at a Mr Brown (a Real Estate Man) place on the State Road off Oak St. Then thro Oak St where is a dell with old willows abt it. I got *Dicelyma* & *Hippocratea* & in another small pool a curious floating mass of *Hippocratea*.

Hence to Walpole + Electric to East Walpole wh connected directly with a Dudley St El. via Norwood
 We got 3. 70 at Norwood & Readville
Viola pedata in full bloom.
Prunus pensylv. the small size in the swamp.
Aralia trifolia

Hypnum riparium sterile floating in masses in pool on Oak St, compared with the fertile I got at Sandy Pond Lincoln.

Dicellaena capillaceum on root of a big willow at larger pond on Oak St frontier
Leskeia obscurva on same tree.

Thelia hirtella, new bright green.

Hypnum riparium that other thin! dark green floating mass on smaller pool on Oak St is also a riparium with shorter leaves.

Dicranum flagellare on cedar trees, very small plants, but some of them have flagellae

Webra lessoniæ "Flagellate"
on the bank by the spring
where we lunched. My notes
with my herb specie.

Bryum capillare on same bank

Bartramia pomiformis.

Brachythecium salebrosum

Plagiothecium latebricola

{ *Fontinalis*

Dichelyma { Hypothecium forma vide
Farlow's letter with Spec in
Herbarium. The rotting
leaves he does not remark upon.
both from cold brook crossing
Cedar St Walpole Mass
sent some Dichelyma (it has the
rotting leaves) to Farlow

Dicranum palmstre

Sphagnum subulatum
" *acutifolium*

" *crassum*, go coelos
at brook on Cedar St but app. not
robust enough for *Torreyanum*.

Wellington Vt. May 15, 1905.

Lift Boston 10 & arr. West Burke on time
to find in cloudy weather after all day
rain here to the house. Saw Hermon
Heath on the way.

May 16 To the woods before breakfast. Temp.
at Spray 44° mid of another cool
sping by pasture fence Temp 40°!
Got several mosses but did not locate
any *Sphagnum praeceps*.

After breakfast with Will to 1st slide
& got flowering *Saxifraga oppositifolia*,
but it would have been better a
few days ago. One piece of ice
not yet fallen to cliff south of 1st
slide: Will says it is always late
there & that the ice fall, last at the
North end of cliffs & works on South-
west: a large piece of ice at base
of cliff at 1st slide: one *Prunella*
Nudicaulis in flower. *Viola pubescens*
& *Dentaria*, *Ceratodon Purpureus* &
~~Myodes~~ *Dicentra cucullaria* in flower.
On coming down went along the
~~the~~ Lake road to Echo Rock &
got various mosses: it seems
like a year for the . and
everything looks fresh compared with
last.

Plagiothecium salvaticum

Cynodontium (varies ?) with long setae
Barber Co.

Weisia

Gymnothecium (imperfecto)

Neckera pennata fr. on Rock

Clavacium on boulder

Eucalyptia - (high up side)

Pezicula ~~attenuatus~~, very fine
growing on a large boulder. I
put up 40 packets of good
fructifying specimens -

In wet pasture before breakfast

Hypnum revolutum ?

On log by lake roadside *Thuidium decipiens* ?

1905

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May 17 Wednesday; no rain today but threatening until 5.40 when it cleared off & gave us 20 min. of sunshine; the sun going down behind Mt. for it to set back; it was sad gazing at the sky & cliff, with the burnt ruins beside me & the thought present with me of the many now gone who had enjoyed summers in that house for the past 60 years.

I went to the corners of the hill this morning & got what vegetation is question for above, the male flor. then down the wood to Snuggle brook. Beautiful *Viola pedata* & *rotundifolia* & two sorts of a wood *V. blanda*: one hairy & the other very smooth & leaves flat looking like *rotundifolia*: also *Mimulus luteus* & a *Hecker* looking one clinging to crack in under side of Big Boulder with *Auwoodia* & a long fringed *Mim* in the white sort. In Snuggle Spring also *Hypnum revolutum* & *lippia* from its leaves serrulate all round. *Ribes rubrum* evidently wild in the wet pasture & two *L. dumosa* in the dry hills of the pasture.

P.M. I took race of my plants & then walked south down the road found fine (from its dark red petrification) *Grimmia* *pocapae*: also a lateral fruiting ^{most like subbasilaris acc to the Book} *Fissidens*

Dicranella heteromalla

Homentia like

Hermit & Wilson's Thiersch & Rose breasted Grosbeak by the roadside.

Axonodon obtusifolius creeping in crevice hanging on under side rock.

fine Hepaticas two sorts and another with a Hypnoid areolation at base of leaf wh. may be a moss, perhaps *Nekemera complanata*.

1905

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May 18. Various flowers today and sunshine
for 10 minutes at a fit 2 o'clock.

Remained at home all the am work
on Mosses & putting them in packets.

After dinner down the path
to the lake & was attracted by the
Orthotrichums on a yellow birch
so began to collect and filled
two bags when the rain made
me seek shelter under my umbrella
arranged as a roof between a fir
and spruce tree. I was up in a
yellow birch when I first saw
the shower over the lake & the view
across the sky to the cliff was fine.
A snow bank 30 ft x 10 ft and
5 or 6 feet deep at lower end of path
& other smaller ones near by. The
sun came out for a few moments &
partly dried my umbrella in its rays
falling on a mossy bank. Tree
mosses & Hepaticas looked wonderfully
fresh after the rain. I walked
to the Picnic House & then home
by the road. Gathered a Hylocomium
under Cherry Spruce trees by roadside.

I made out a Umbratremum
after considerable study of it.
More rain later in the afternoon.

May 19. A sunny day at last; much wind especially in PM & thermometer at 6.30 was 42° — But the sky & clouds have been March like in beauty. I worked on the Nekera this am making it *N. complanata* which trees far I do not think has been recorded in Vermont. Then I walked down the road to Nekera Rock as I call it & found some more. Temperature of Ha Ha Spring a little under 42° , trees colder than the spring. Came home with much *complanata* which I did not sheets. It is a fine golden color when not growing in moss. It creeps by its threadlike fibrous rootstock along the face of the rock & where the crevice is large enough to have several lines of plants they can all be separated to these thread like single ones with branches about 1-3 cm long according to the vigor of the plant. I noticed the moss dried very quickly in the air & was thin little soil may easily dry up & be broken off or fall away from sight.

In the afternoon I went in search of more & found another large broken rock in same position with plenty of it clinging to the smooth face of the rock and it appeared to me as if the sun & wind of even this one afternoon had made a difference in the moisture of the plant. Where it was protected by shade & leaves it was much greener & moister than when ~~in~~ on the limey face of the rock.

I searched other rocks and found more & finally even on the earth on rocks & extending to the root of a tree on the rock, so I made up my mind it must have been here before and escaped the watchful eyes of the Taxons by drying up in the summer time and I am anxious to test my theory. I followed the wire fence back to Marl Pond & beyond.

Found a large plant of *Orthotrichum* in plenty on one dead Maple, also a clustered capsule *Dicranum* two or three fruiting *Hypnum* & also *H. scorioides* sp. prob. & *Richardsonii*. *Rhodora* not in blossom, but collected ♀ & ♂ *Mycica Gale*,

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a fine delicate Amelanchier &
Eryngia repens, the largest and
finest I ever saw. Some fit very red.
On the Wood road thro' swamp
a very large hare (I never saw one
anywhere near so long or lank) gave me a very good chance to
see him & seemed in no hurry to
go on tho' the hams with me
had been making the swamp noisy
for an hour or more. I filled my
box moss full & came back, with
joy that I was allowed by God
to spend such a happy day.

Neckera complanata

Dicranum fuscescens

" not in fruit

Grimmia apocarpa Long plant.

Thuidium ? *delicatulum*

Orthotrichum speciosum

"

Leucodon sciuroides gemmate

Dicranum fulvum

Agyrtia Schreberi fruiting

Mnium ? *Grummondii*

Arblystegium riparium in a dark
small pool below Mere Pond: note,
it also a sterile moss wh. may be
palustre or
cordifolium

a rigid Muum not yet ex
 + a Callitricha with curiously veined
 leaves and a straight-spurred pubescence
 on the back, rather than stellate.
Rhynchostegium — in mat on
 the big yellow birch root by the new
 lumber wood road in the Swamp.
Hypnum aduncum or revolutum in
 Mare Pond.

Saturday

May 20th A snow squall this morning
 at 7 o'clock + cold rain + showers
 all day. Then at 7.30 36° and
 about 42-44 all day. Have
 been in all day, putting up more
 Neckera + working on yesterday's
 mosses as per the list.

At 5 walked to the lake but
 hurried back in rain. Took
 from a tree what I call
Hypnum reptile but did
 not examine it.

1905

May 21. Sunday: Early to the Cheney place & found Keckera complanata on the big boulders by the brook which makes me more & more think it must escape summer observation by drying up, or even breaking off the rock & falling to pieces in its limey bedding.

After breakfast went over to the Bishop farm for the Crataegus: it was not at all out but I brought home a couple of bunches to place in water. Back to the school No. corner & noted the warblers in the little glen at the corner: the day was then sunny but breezy & the birds sought shelter in the glade. The magnolia & chestnut sided warbler were plenty and best of all a white crowned sparrow.

Coming home we found evidence from the visit of an unknown bird to the grassy lawn in front of the house, and that Bill had brought back from the lake shore road a dead Scarlet Tanager with his skull emptied of its contents by some bird or animal. They are said the bird on the lawn was never seen here before being all

over of a very red with no black at all on it. Mrs R. Hattie Charles (who came into the house to call the ladies to the window to see the unknown bird) all agree as to its color & novelty. Max could hardly believe it to be the Summer Red bird up here, but it looks like it —

PM the cloudy & windy we went to the Gulf feed & pasture above but birds were not to be found.

Evening Mrs R told us something of her farm: she has between 600 & 700 acres. It follows the Sutton Town line from the Bishops farm place on West side Sutton School No cor. road and then in a line down to Cold Brook comes (the not as far as to the brook & then from the ^{south} spruce grove near gate (my Tayloria grove) in a straight line over the top of the mt, taking in Pulpit Rock & going some distance beyond the top & then back to the or by the wire fence that finally ends in the road near Ha Ha Spur brook. A separate piece is the Fox Hill mt

another separate piece is the Picnic
No piece at the lake of an acre
or two. The beach at this
end of the lake is a public laundry
for 30 rods and cannot be enclosed.
Plagiothecium Muellerianum

on the Cheery Place at foot
of limey rocks on which grows
the *Nertera complanata*.

Charles Walker has been at work for Mrs.
Richardson since 1900 & he knows
G. H. Mann of
Waterville Vermont
who made the short, thick
Carving knife
Mrs R. has just given me.

May 22. This has been a Bird Day and I never knew before how much it means to come up here before the leaves are off the trees and watch for the arrival of warblers.

I went down to School Ho corner - in, the swamp there had fine view of the Parula Warbler (I call him my little Blue Jay) also the Nashville. I found a swamp full of *Dicranum* (?) flagellare with so large it almost seemed like a capsule buried in the long subulate cuspat leaves & almost thought it a possible *Plasidium*.

Climacium in fruit

Tissodens " "

large Muin " "

Hypnum " " and an odd looking *Orthotrichum speciosum*.

Charles told us at noon that yesterday's strange bird had been within sight of him all the morning while he scoured oats. So we three (He Mad & I) went out towards the Cherry Ho & saw the bird at the edge of the grass land and it was a Scarlet Tanager, but HK & Mrs R.

say yesterday's bird had no black at all on it, while Charles, tho he saw no black on yesterday's bird says his Today's Scarlet Tanager is the same bird he saw yesterday. He also reported today the first English Sparrow ever heard of in Willoughby but this evening he tells me that his one English sparrow was in company with the Scarlet-Tan., so it is probably his sober clad mate.

Coming in the house I arranged my moses till 4 o'clock - then out on the Pasture Ridge where in the larches, & cedars by Little Pond Bog we saw two birds feeding in the Larches which I noted as Two

Big Chickadees and also with them a third very brilliant whi I noted as follows:

"Same with yellow & black on head and yellow throat spready to buff: almost as large as a Robin but chunkier; they feed fast, hanging head down."

my Field Glass may have magnified their size too much,

In Little Pond Bay two of the Sandpipers,
of former year were feeding by wading
along shore & putting their heads under
water every now & then. One remained
standing on log very quiet so I
fancied I made the full notes.

" white ring around eye. Greenish-
yellow legs, say 3 inches long.

dark brown curving line along
outer edge of wing. very white spot
under tip of tail. And a short
& apparently not reaching ground.
Upper parts mottled light brown.
Under parts soft pearl grey &
feathers on his body at thighs ruffle
in the wind. Looks like a fat
robin for size, tho' short tail and
longer legs —

There is a Robin's nest in the
broken down shrub of the ruins of
the burnt hotel abt 4 ft fr ground
with three fat featherless young.
also a Blue Birds nest in a hole in
an old birch tree near the pasture
entrance. the male & female were
both near the tree.

May 23 1915
A cold morning: ice on the grass by the overflow of the water pipe + a heavy North wind all day: the lake has looked blue & cold, with breakers on the beach. Ma & I walked to Roaring Brook: Temp of the Brook 40°. Collected a good many mosses; one bunch of ~~sphagnum~~^{fil} with Eucalyptia in it in plenty for that moss. No birds of any moment; the high wind not favoring them. Got Neckera uliginosa? from under a dark red cap of a boulder with a bright brownish red capsule diff. from the ordinary form.

PM Got the sugarhouse woods behind
the Hotel & began a hot path.
Several tree rock moises &
I was surprised to see how much
they seem to have dried up.
More sun seems to shine there
but some pink is due to the leaves
still not out, & so the woods
lighter.

Dicranum longifolium

"

Pylaisia
Hypnum

"
Thuidium
Aclerodon

watched a pair of Purple Linets
feeding on the young larch trees.
Saw the Black-chickadee bird
of yesterday, but only for a hasty
look: he is abt the size of the
linet & was on the same larch
for a moment. Temp of the Sugar-
Woods Spring 42°: this spring moves
up the hill as the summer advances
& finally gives up its life in a
wet spot by the fellow Cypressines.

1905

24 May. a very beautiful day, tho' a bright
white frost over everything early this
morning. Will & I to the top of the mt.
leaving directly after breakfast;
the Crataegus on top not at all
out, but I cut some & have put
in water. The top & the little
glades there were carpeted with
Spring Beauty, Big tooth violet
& Sanguinaria; I collected
several mosses off the trees:
To North outlook & then took
the new path down to Roaring
Brook. the lumbering of winter
before last has wholly changed
the look of the forest & I was
much disappointed: we lost
the path in the broken timber
& brush, but finally came to
the road close to mouth of
Roaring Brook & home to a 12.30
dinner. P.M. with Karl and
father lake shore Katie's first
walk to lake; heard Veery
Wood Thrush & watched
the beauty of tree & sky.

Hypnum on rock by Pulpit Rock
" on log under the
shrub at path to Spring.
" on Crataegi

Pylaisia .. x

Oxalis .. "

Hylocomium on ground of
north side sun.

Hypnum " " " rocks
" " " " trees.

Polytrichum " " "

Desmanthus eml " "

1905.

25 May

AM. with Kuk & Mac to Echo Rock.

Hypnum revolutum ?

PM with Will R to the Scopioids
Bog while he fished & got some
15 small trout I collected mosses.
Fissidens

"

"

Dicranum

"

Hypnum Scopioide

"

"

"

Was rather surprised at finding so little
or no sphagnum where we were.

Lonicera caerulea in fine flower.

Looked up *Scutellaria* in Flora of N. Amer.

1905

169

26 May.

Mat went home 8.05 train & Mrs. R.,
H & I drove back to West Burke. Day
fine in forenoon: we came home
slowly by 10 o'clock. I got Atchison
medallation on Brook Path: sudden
dark clouds before our 12 M dinner
& hard rain in p.m. I worked
a little arranging yesterday's horses.

Saw first King bird today

" " Golden winged Woodpecker

" Hill R. says "The juncos have come
back" when I supposed they stayed
here (some of them) all winter, but
he says no.

wonderful yellow hairy sunset in the
midst of rain. I stood under
umbrella & watched the sky and
cliff.

1905

27 May

morng doubtfully clearing but afterward day very fine. Dto Cold Brook path: Temp of all the springs & brooks the same, i.e. 45° . Got a lot of fruit.

Hippomane subastrum
bough to send Grant 55 -
in the cold rocks above ~~Cold~~
~~Boiling~~ Brook.

Thamnium

growing on wet face rock &
Nekera

or some other possible Thamnium
came home with several mosses
that I worked up in P.M.

1795

1715

28 May Saturday; very fine day.
walked to Crataegus on Bishop Farm
but it was not any way out.

Back thro' Goat pasture & found a
~~few~~

watched for some time

3 Humming Birds on the Canada
lime trees, feeding & resting on
the branches; they often stopped
while feeding to rub their bills on
the branches.

Mc G. L. Brown must be one of
living first houses south of
Dr Cherry's fish pond and on
opposite side of road in which are 2
Catappa trees; found in
the swamp just back of his house.
They are in prime condition.

emb. of brook at farther side of the
Goat pasture 50° being trees warmer
than those nearer the house.

1905

Left Welloughby

29 May

Monday at 7 am took West 63
Train & 10 Boston 4:30. met Miss Rose
of Fall River who with a friend had
been two weeks at Lafayette House.
Franconia observing birds.

1905

arr. Willoughby

1235

June 5 at 4.45 fr Boston at 10 am
Dr & Mrs Broughton came on same
train, they going to Alaska.
We talked of the Japanese
celebration last Saturday.
Hattie & I were met by Will
& reached house at 6.20 with
our trunks & load of fresh vegetables
& fruit from Rocker.

McClain also had given us
some living soft shelled crabs.
Evening warm & pleasant &
I walked back & forth to
Snugle till 8.30 —

June 6. Tuesday.

walked up the mt in forenoon:
everything fresh from the rains
last night. The Crataegus no
where near out & blossoms
appeared to be very few in number.
Took one bunch to let bloom
in water here. Brought a few
moses for the path. Shaving trout
left now with me have been
very fat this pm.

Forsidens costatus Mls.
Catherina argenteata ♂ & ♀

Brachythecium salebrosum
or " aenatum

Polygonatum alpinum on the path
Anemone &c

Hypnum —

also a Mosschild - very much
corroborated singular in its
adhesion to the slate, app.
extending in many ways.

I left my waistcoat on a
post after mine fence on account
of the warmth when I
returned it was gone

Charles & I have investigated
this pm and it is evident
some one had been mending
fence & had lifted it.



John Newell



Willoughby Lake House

VERMONT.



N. R. RICHARDSON, PROPRIETOR.

F. W. RICHARDSON, CLERK.

6 June 1905.

Mr. Ira Humphrey:

West Burke vt. Dear Sir:

To day while botanizing on the mountain I hung my vest on a post of the wire ^{fence} dividing your property from ~~Mrs.~~ ^{two} Richardson's. When I returned ~~two~~ hours later the vest was gone with valuables in the pocket which are of importance to me as being gifts. I am told by the neighbors that you & your man were at work there today mending the fence and I trust you will see that the vest is returned intact to me at once.

Yrs truly Geo G Kennedy

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June) Not meadow; cool bright day till 2 P.M.
when it clouded over & a cold
rain set in at 6-30.

After I walked to Bishop's farm
& got one only fl. spec. of the
Cyrtosia; brought home a
small branch; the tree will be in
full flower by the end of the week.
This one flower had anthers of pale
pink color, streaked or striped
with white, looking under my
lens like a minute *Cypripedium*
acanthe. 5 good stamens
2 sterile stamens and
one stamen made up of two
adnate stamens & anthers.
also 5 equal styles.

Coming back to the Brook
running up into the pasture
directly behind the Bishop house
& I found a shady bank where
grew

Bartsia aedera

Fissidens (?) *cristatus*

Mollia tortuosa in fruit

Bryum pallens, only 3 or 4

plants in the cold gravel of
the little ridge.

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Hypericum bipinnatum
at the meadow near Rockwood home.
" *chrysophyllum* not far above
this point:
and getting into what remains
of the once beautiful Heather Swamp,
Listera cordata
Mitchella ruda

+

Hypericum splendens

Thuidium or *Hyalocoma*
+ *Frechiera* as I suppose.
At dinner here were
Mrs Watson of Sutton comes,
Mr Reagles who has cottage
at Cold Brook & from being
a West Burke Druggist is now
President of Bank in
Lyndonville —
a young man for the Bank,
they all went fishing in lake in PM
Hattie & I walked up the Picnic
House betw 4 & 6, but no birds
sang in the cold dark air.
on Rock collected

Hypericum populinum

1905

(77)

8 June. Every spruce tree on Mt Nor
looked like veritable Xmas
tree this morning at 7, for
they were all loaded with
fresh white snow.

The men have been setting Telephone
poles near Mrs R's house to
avoid the trees in the highway
but I have been talking with them
particularly with one
Lyman Walter

of West Burke a Lincung
timber & a very interesting
out door man: his sister
teaches in a college in Penn
she would be a good woman
to go with at this northern
vt region as he knows the
country well, between Island Pond
& St Johnsbury.

Drops of water clinging in the open work
cup made by the fascicle of young
larch leaves have surprised me
this morning by their diamond like
beauty & by the fact that I
never before noticed them. The
least jarring dispersed them,
but they were shining in the

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slight sunshine when I left them
as if waiting to be absorbed by
his rays. One single pellicle
of water is minute, but these
larger pellicles, up to at least
five millimeters wide, filled the
lower part of the mountain cup,
perhaps held in place by a thin
coating of the oils of the young
& growing surfaces.

Epigaea repens in good flower
this morning — another proof
of the cold weather up here.
growing of course on the cold
side of a cold hill in cold swamps.

I have been walking abt the Little
Pond Bog:
Hyp. micinatum var.
Dicranum fuscescens a very
large fine var. sterile
Pyrrh. Duvallii
Hyp. Blandovii
Mnium Drummondii in
the deep grass of the wet
meadows by the Blandovii
& *M. hymenophylloides*
also the very large
Fissidens adianthoides

at the further outlet of the pond,
and a very acute operculated
Hydroconium
whi were so not far that I
should at once call mibratum
a Thuidium

also in the wet grass, way
down under the grass, that
makes me think I don't
know any *Thuidium*.

8PM Hattie & I walked to the
lake.

very heavy dew on the grass
immediately after sunset.

1905

June 9 Friday. To the Bishop's farm in am
& collected Crataegus flowers.
Coming back followed the Brook
down to the Swamps at Four
Bridges: in brook
Fontinalis lescurii
and in Swamp
Brachythecium novae Angliae
Hypnum
Bryum proliferum
Barbula
on trees
Mnium cuspidatum
and under big boulders on Road
Plagio silvaticum.

Remained at home in pm.
Day has been very bright & fair
the morning coldness giving
way to a rather cool forenoon.

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10 June Saturday

Three ladies from Lynn came last evening : they are all after plants & today I went with them in am about the wet meadow &c for Cherry House round by the water courses to Snug Harbor then to the Little Pond Ridge & home. *Lysimachia* in the Cherry comes as good as ever. & yellow *Cypripedium* in the wet meadows. On we all to the top of the Mt. The *Crataegus* no nearer blossom than last Tuesday. but at North Outlook got good fax to a *Azalea* & *Draba*. Afternoon misty & rain set in when we got home. Much beauty & mystery in the view of the Lake & Prepit Rock & the North Outlook.

Mrs Maratta whose husband was 5 years consul general at Melbourne Australia and said Dr Muller died while they were there : they knew him well.

above
Mrs. ~~Boyd~~ born at Biddeford
who visited Fortunes Rock
a great deal when younger

Mrs. Boynton -

" Frank Parker above
195 Ocean St Lynn
Tel 531.5.

Mrs. D.W. Maratta
14 Ocean St Lynn
father is
N. Brewer
Tel. 1017.2.

1905

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11 June Sunday Rained hard all day
did not go out.

12 June Monday.

No rain today but cloudy &
towards evening very warm
& mosquitoey.

walked with the ladies to
Roaring Brook, very full of
water: found a Junco's nest
with four eggs by the lake
Roadside. Coming back
went up 4th July slide:
Say spp. in fruit.

Primula in flower
Say arborescens in neither flower
nor fruit, just the plant.

Astragalus Blakei in flower

Saxifraga Hedgesii.

Carex sspoides

Scirpus Capillacea.

Potentilla fruticosa not in flower
not much there

Artemisia young not much.

No fruiting mosses, brown, at
back some sterile met

Lycopodium, Mnium &
prob. Gymnostomum constrictum

also *Viola venusta* in the cold brook.

Celastrus scandens a short way up the slide:

Rhus Toxicodendron in full flower:
many fresh young oaks
& fine flowering *Juglans cinerea*.

Got home to a two o'clock dinner & then took them to the Bog Woods about Marl Pond. The great find was five plants of *Calypso* above Marl Pond near the wire fence.

Mitchella repens &
Lecteria cordata.

Took them also into the Rhodora place on the road side of Marl Pond.

1903 1915

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13 June Tuesday.

To Cold Brook Path thro' the Cheney wood with the ladies.
Large specimens of the *Morchella* that I have
before found with the
corrugated extended-in-folds
cap.

They went home by the
1:47 train after a 1/2 hr
dinner.

P.M. It thundered & threatened
rain which came in the
evening. I across to Little
Pond from the house
over field, meadow &
ridge.

Drepanium flagellare or "long
" *Congestum* " "
" *fuscescens* on rock
and a rock mixed with other
Hypna what I call
Brachythecium Thelosii.

It appears to answer the L. J.
description.

14 June Wednesday
In field back of house town.
Cheney's at Brook
Carex scabriata +
perhaps with place
collected also
Equisetum pratense
& in the Cheney place
& along their house supply
Brook various
Mimulus which I
have not named,
a fruiting *Thuidium* +
a *Pleurozium* fruiting
Bryum - a cushion
& several *Sypura*.

P M Took car after above &
before Tea to Pasture Ridge
but saw no birds.
Day the warmest yet.

15 June 187

Bryum macrostegium

appears to answer for my yesterday's
moss on the Cheney place

There are two things perfectly
satisfactory here, ^{very}
The Heaven & the earth.

15 June 1905

Thursday. A warmer day than we have yet had.

went to top of the Mt. in am but the Crataegus evidently will not blossom for a week. A big Beech had galls & I collected some mosses that otherwise would have been beyond my reach.

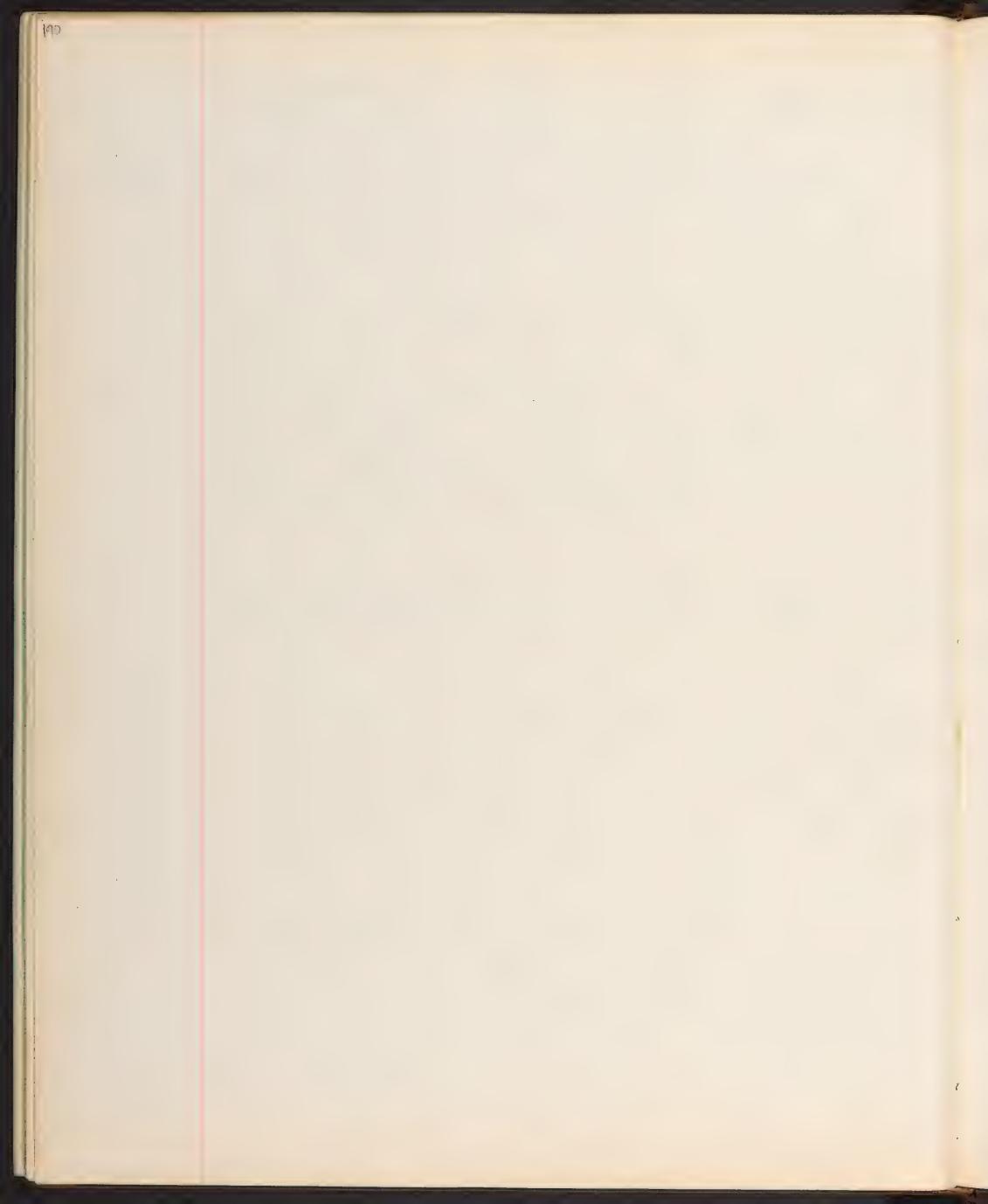
As usual started two or three partridges. Collected a fungi not a Polyporus.

Pm packing to go home tomorrow.

16 June 1905

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Friday Left Willoughby at
7 am. for Boston 4.30
a fine morning drive followed
by a warm day.



1905

June 28. Mosses from Laggan &c
from
Dr A. H. Broughton.

1905

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July 4. Solidago.

walked up Blue Hill at 5
A.M. back at 7. Signs of
being a very warm day.
Fine ripe Vaccinium Pensylv.
& also Solidago paniculata
in bloom near the wet boggy
place on top.

Webera
on the path coming down.

July 11. To West Ridge N.H. with forced to
call on trip Woodward.
on the RR tracks near station
Thlaspi arvense L
Cornellia sativa Count
two northern things as I have
gathered them.

West Lebanon N.H.

Oct 27, 1905. HKK & I went to Mountain on
Tuesday Oct 24 & came back to
Alden Hall yesterday pm.

Today brought home a moss
from the old wall on roadside opp.
Alden Hall which I suppose
to be Entodon & it looks flat
& smooth shiny like to "cladomigia"
I gathered on wet rocks by edge
~~of~~ brook beyond Horsie club in
Canton, on April 4 last.

1905 Oct 29 Sunday Crossman's.

walked with HKK to Crossman's Lane
then the old road to Hillside her home
by Forest St, Doe Hollow & Bushy Dell
In Crossman's brook near old C. house
got in habitat growing out & clinging to
small gravel & stones & always submerged.
Tried to name it Dr. Pearson Brit.
hepaties & called it
1st *Chiloscyphus polyanthos*
var. *riparia*

or
2nd *Fissidens rupestris*

195

Oct 30, 1885. To Winchester to call on Florence Brown & Kenneth, but they not at home. I walked by the Mystic Peabody to West Meadow. Beautiful fall day. very fine white pine on bank below Mystic Pond N.R. with 7 main ascending branches, thus making a very noble & unusual tree.

Bradford Torrey.

Nov 1. A dull morning with fine dry air PM
cold wind by 9 PM.
Took 9.32 train with Chas E Tax &
for Willey Farms where Bradford
Torrey resides. We walked down
Roxbury the big Deane Estate by
is private road & followed by
it to Brown St & by same home
comes to South Ave & beyond.
There ate our lunch on
the roadside & back by pretty
much the same way with some
roads near the station & took
the 3.53 train home. Saw
almost no birds & almost
no people.

1905

Nov 8. Wednesday Bradford Torrey.

Took 9.15 with C. E. Faxon for Newton Lower Falls where B. T. met us & we walked back m RR across Chas River Bridge & up first street to left & so under the B & A RR & by Seaverus Brook lane (a wild pretty place) to the road by the new bridge leading to Notumbeg Park on wh' we stood some time admiring the reflections in the dark water under a sunless sky & then by wood paths & side hills to top of Doublet Hill marked by the two or three pines wh' can be seen fr. long distances, then down towards Mr. Deans high water tower taking our lunch by the side of a pasture wall wh' there not being any sunshine was rather cool & made B. T. go off in a discourse of his admiration for Desert Lichen as at this season anyone where he was last year.

From the water tank tower which
we ascended for the view we
came by road & woods to
Mr Wright's place where the
lay out of the place is fine,
& the big oak by the edge
of the wood revealed by Mr
Wright cutting still finer &
then to B.T.'s house close
to the open aqueduct & so
down to the N.L.T. station
for the 3.12 train.

On our way to Doubtless Dale
from Kivernby a bridge or walk to
the Gatehouse along the
top of the new aqueduct for
abt half a mile, & a very
beautiful walk it was with
the brown & yellow woods
on our right.

1905

Brantree.

Nov 15. with Ab Hodges C. E. Faxon & Mr Esthwaite by the 9.17 train to Brantree & to the Taxon old house in a meadow farm towards Millard St in the western part of the town tho not far from the station. Enroute we stopped some minutes in the ancient burying ground.

I took several photos of the house & lane.

The morning was cold & cloudy & then 20° when we left Boston. & the day gradually got less sunny tho warmer it was 40° by 4 P.M.

We visited an old disused quarry of red granite & there came two wood pails & by the edge ice pond on the jammed up brook & so to Dr Symond's trout ponds & across country to the old Purgatory Lane on the East side of Blue Hill Reservoir followed that to Brantree Great Pond & then by bridge over the river into the

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Reservations by good road to
the Park Place + up side of
Gaines. 1000, 000 ft. ^{other}
min No. 10000 ft.
about fit on the road after Mc Gregor
Minneapolis 2 miles east Gaines - we
go village 1200 ft above sea ¹⁰⁰⁰
This is a house
full back is 2000 ft up. ^{views}
the road goes down
with small houses ¹⁰⁰⁰
when a mile or less steep - ¹⁰⁰⁰
take boarders ¹⁰⁰⁰

Mrs. Fiske at the Hotel No

Mrs Kate Hawley of New Haven
Mrs Chapman their niece
in the village Mrs Bay Knob
there which is so all to
find the better houses or
big cities place. Mrs. need
to be at Ravcliffe

E 31 E 37
1000 1000 1000 1000 1000 1000 1000 1000
1000 1000 1000 1000 1000 1000 1000 1000
1000 1000 1000 1000 1000 1000 1000 1000

199

Reservations by good road to
the Park Place. - on side of
the other
so
etrie
- me
go

Names of members whose monthly dues are not paid before the 1st inst. are posted.
Not paid forty-five days thereafter, membership may be declared forfeited.
Checks should be drawn to the order of the Union Club.

Names of members whose monthly dues are not paid before the 15th inst. are posted. It not paid fully by the 25th of the month, membership may be declared forfeited. Checks should be drawn to the order of the Union Club.

235	Restaurant	
	Ladies'	do.
	Wines	Cigars
	Billiards	Cards
	Rooms	Rooms
	Carriages	Carriages
	Miscellaneous	Miscellaneous

Boston, Mass., 1905

MONTHLY STATEMENT

UNION CLUB

Reservation by good road to
the Park Place up side of
chick-stewbit & down the other
side to Reservation Road & so
to Randolph Ave & Electric
cars to Mattapan where we
parked. They to Boston &
by electrics home.

Saw a flock of true sparrows
over by the Deep pond in Bra-
intree. The ice moved
bear me on the edge of one
little pond.

1905

Newbury —

Nov 23

wth Ad Hodges by 9 o'clock train
to Newburyport & walked up the
town. Saw statue of W L Garrison
& Washington. The Public Library
founded in 1855 & occupied a fine
old Colonial mansion in 1868
walked to Parker St via the
frog pond Cemetery & saw
stump of the big elm that H. T.
Gould celebrated in her poem.
It blew down a few years ago.
Took electric car to bridge at
old Newbury over Parker River
had lunch on the shore.
Took photos of the shore & of
the memorial to the early
settlers: we had to leave at
2.20 the most beautiful hour
of a most beautiful day, a
very perfect Indian Summer
day. To catch the 2.54
train back to Boston.
we shall go again for a long
day —

The pale colored sparrow
I saw in old cultivated
field near Parker River
Mr. Walter Taxon thinks
was an Ipswich Sparrow.

It flew from the ground abt
30 ft in advance fine, went off
quite a distance say 300 feet
before alighting - it had an unusually
flight & was some larger than
a song sparrow & quite a
pale color.

NOVEMBER DRY AND SUNNY.

Month Was a Record-Breaker in Sun-
shine According to Blue Hill Ob-
servatory Records.

The records of the Blue Hill Observatory show that the past month was the sunniest November in more than 20 years. There were 174 hours of sunshine, the normal being 132 hours. The highest previously recorded was 153 hours in November, 1899. The average relative humidity this year and the cloudiness were also the lowest in 20 years. The rainfall was only half the usual amount, but there have been several drier Novembers in recent years. For four successive Novembers the rainfall has been small. This year there was very little rain until the last few days of the month. The temperature averaged about one degree colder than normal.

